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3 IN RE THE MEETING OF THE )  
4 BAY-DELTA ADVISORY COUNCIL )  
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**ORIGINAL**

10 TRANSCRIPT OF PROCEEDINGS  
11 SACRAMENTO CONVENTION CENTER  
12 13th and K Streets, Room 204  
13 Sacramento, California 95814  
14

15 Thursday, January 30, <sup>1997</sup>~~1996~~ at 10:08 a.m.  
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20 REPORTED BY: SUSAN PORTALE, CSR NO. 4095, RPR, CM  
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Commission

LESTER SNOW, Executive Director

SUNNE McPEAK, Bay Area Economic Forum

ERIC HASSELTINE, Contra Costa Council

JACK FOLEY, Metropolitan Water District of  
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ALEX HILDEBRAND, South Delta Water Agency

TOM MADDOCK, California Chamber of Commerce

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STUART PYLE, Kern County Water Agency

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Authority

MARCIA BROCKBANK, San Francisco Estuary Project

RAY REMY, Los Angeles Area Chamber of Commerce

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1 (All parties present, the following proceedings were  
2 had at 10:08 a.m.:)

3

4 CHAIRMAN MADIGAN: Well, good morning, all  
5 of you.

6 The hour of 10 a.m. having arrived and most of  
7 you, apparently, having made your way through the fog  
8 satisfactorily, and I congratulate you for that, we'll go  
9 ahead and get started, and those who weren't able to make  
10 their way quite so successfully through the fog to arrive  
11 we'll try to catch them up.

12 Before we get started, I would like to  
13 introduce to all of you Colonel David Peixotto of the Army  
14 Corps of Engineers is joining us this morning.

15 Colonel, thank you very much for joining us.  
16 The purpose of today's meeting is primarily to provide the  
17 members of the BDAC with the progress of the water quality  
18 and the water use efficiency programs and to discuss the  
19 issues that have been the focus of the work group meetings.

20 We are going to spend quite a bit of time on  
21 those issues today and your thoughts, your concerns and  
22 your advice will be most appreciated.

23 You have received most of the material within  
24 the past week or so.

25 For those of you in the audience who are

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1 interested in the material which the BDAC members  
2 presumably have there should be copies available to you  
3 outside in the hallway and you are welcome to that  
4 information.

5 To those of you who will wish to speak to the  
6 Council at various times we would ask that -- and we will  
7 provide you with an opportunity for specific comments on  
8 specific items as those Agenda items occur.

9 We would ask you to fill out a public speaker  
10 card at the registration table so that we have your name  
11 and address and so that we can hunt you down in the dead of  
12 night if we disagree with you.

13 For those of you who have general comments  
14 there will be an opportunity at the end of the meeting for  
15 that purpose and the same request for a speaker card would  
16 apply.

17 At the moment the next BDAC meeting is  
18 scheduled for Wednesday, March 12, in Sacramento here but  
19 at the Beverly Garland Hotel as opposed to the convention  
20 center for those of you who plan on attending.

21 We are also planning a meeting for the 10th of  
22 April, and I understand that staff is looking for a venue  
23 in San Francisco.

24 So I would hope that all of you will note the  
25 March 12 and April 10 dates. The March 12 is at the

1 contemplating in the program could have some impact on the  
2 potential for future flooding and flood damage.

3 I'm going to start off this Agenda item and  
4 talk about timeline and decision points and BDAC and kinds  
5 of discussions that were expected from BDAC to meet our  
6 timeline and then turn it over to Steve Yaeger and Rick  
7 Breitenbach to talk a little more about level of detail and  
8 how we move through Phase II and what Phase III is and how  
9 we kind of get from where we go to where we need to be.

10 I want to start with the general timeline.

11 Now, we've taped up two simplified timelines on  
12 the wall over there, and I think you all can kind of pick  
13 off the dates on that.

14 Oh, okay, maybe not.

15 What I want to do is kind of hit some critical  
16 dates -- well, maybe not. Okay. Where is the on button?  
17 This one?

18 MARTHA TURNER: It's the red one.

19 EXECUTIVE DIRECTOR SNOW: Oh, the red on  
20 button. Okay.

21 This is kind of a grossly simplified version of  
22 what's on the wall and I would encourage you at break or at  
23 lunch or whatever to kind of take a look at that because  
24 that's the first time that we have started to trying to  
25 integrate some of these different functions and when they

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1 Beverly Garland here in Sacramento and that April 10th at  
2 the moment will likely be in San Francisco, and we will get  
3 you the location as soon as we can.

4 As always to members of the BDAC and several of  
5 you are very good about this your comments in writing on  
6 issues that are of concern to you are most valuable and  
7 welcome, and we will see to it that they get distributed.

8 Okay. Anything else for the good of the order  
9 in terms of the usual housekeeping items? Lester, anything  
10 that you want to observe at this point?

11 If not, then we'll move on to the item on the  
12 Agenda listed as Component Integration and Programmatic  
13 Level of Detail.

14 Mr. Snow.

15 EXECUTIVE DIRECTOR SNOW: Thank you,  
16 Mr. Chairman.

17 Do you have me on yet? There we go.

18 The only thing I would add, just a general  
19 introduction, you'll notice that the second Agenda item  
20 that we have scheduled is a status report on the flood and  
21 we are fully aware there is probably a lot to be said and  
22 we'll make sure that we have time to discuss some of the  
23 issues because as you might expect there is significance to  
24 our program in terms of what's happened in the flood and  
25 vice versa. We would hope that some of the things we are

1 come together and when you have to start to making critical  
2 decisions.

3 I think the significance here is kind of on the  
4 top part where we have impact analysis. That really is  
5 occurring late February through August. It's kind of an  
6 ongoing thing that happens with impact analysis. We are  
7 starting to identify the preferred alternative in September  
8 time frame, hit the public with a Draft EIR/EIS in  
9 November, get a lot of comments, try to develop response to  
10 comments in the spring of '98 and move to a final EIR/EIS  
11 for public review in late summer, early fall, move to  
12 certification and Record of Decision, then at the very end  
13 of '98.

14 And so this is kind of what our target is.

15 A lot of -- if you're like me, to simplify  
16 things, what you've been doing is you think that the whole  
17 decision being the EIR/EIS but when we look at all of our  
18 work there is a lot of other things that have to come along  
19 other than just classic EIR/EIS.

20 Draft agreements around facility operations and  
21 assurances, adaptive management program, finance, basic  
22 implementation process and some increasing level of  
23 knowledge about the alternatives of pre-feasibility and so  
24 all that's coming along at the same time and represents  
25 certain levels of decisions that have to be made.

Thanks.

MR. GRAFF: Lester, would you put that back up again? I have a question.

You said preferred alternatives September?

EXECUTIVE DIRECTOR SNOW: Yeah.

MR. GRAFF: Draft EIR/EIS, does that imply that the Federal and State governments will have a draft preferred alternative on the street by September or November or both?

EXECUTIVE DIRECTOR SNOW: Not on the street.

It's where you start IDing the preferred alternative, where the agencies start getting a grip on it in order that you can actually then prepare the full draft for public review.

And so you're IDing the draft back in this time period so that the agencies are understanding how the pieces fit together, what the problems are and what is important to disclose in the public draft.

MR. GRAFF: Because I've been told that it does not -- technically at least NEPA, I don't know about CEQA, does not require a preferred alternative and a draft.

EXECUTIVE DIRECTOR SNOW: That's correct.

MR. GRAFF: So are you able to say now whether there will be one?

EXECUTIVE DIRECTOR SNOW: That is our objective and has been from the beginning that we feel that our target is to identify a preferred alternative in the draft.

And if we can do that, which, again, is where we are headed, you get a much higher quality of review from people than if you're carrying three or four possible alternatives.

One other way to kind of characterize the timeline and the issues we have to deal with again is looking at the CalFed Phase II decisions.

Clearly a decision at the end in terms of approval of the final programmatic EIR/EIS and there is a lot of ways to characterize what's in that but it's certainly the integrative components that we are all working on separately right now and all of that integrated with the storage conveyance configuration and currently there is a lot of different configurations in storage and conveyance.

When we hit the final we've got components integrated and a storage and conveyance configuration that is preferred.

A facilities operations plan. This is just to make sure people understand that you can have physical facilities and they can do certain things but how you agree

to operate them is as important as what the facilities are themselves and then the implementation plan. The issue of adaptive management, institutional legal assurances, financing plan, and a staging plan, how you would break up this large program into discreet stages to be implemented.

When we look at some of the BDAC discussions and the relative time frames, I kind of want to jump ahead a little bit and then we'll come back to where we are right now, but when we look at the period April through July, what our intent is is to have in discussion in the BDAC forum facilities operational concepts, how you would operate these configurations.

Clearly, the adaptive management strategy, how that can work to deal with future implementation, financial strategy and assurances. You know, actually everything you do up here has kind of over to the side assurances because all of this has to have assurances associated with it, but also we'll have a basic package that describes all of the assurances and then certainly in this time period we'll start getting draft impact analysis coming out of our impact assessment.

Then in the time period after that, the three months, August through October, we are really getting into as you saw from the other chart identifying the preferred programmatic alternative, coming up with I'd really call it

a second draft, financial strategy and the assurances associated with it, the implementation plan and assurances and a schedule of the site specific EIR's/ EISES.

This is kind of important because those of that you followed Prop 204 know that having a schedule of implementation is part of the trigger system in Prop 204 and certainly a draft staging plan.

So let me kind of back up to where we are right now.

April for us is an important meeting, an important Bay-Delta Advisory Council meeting, and before I even talk about the questions, as Mike already indicated, what we want to try to do today is get a good discussion of water use efficiently component, the water quality component.

Then in March it's our plan to have, I guess what I'd call a major discussion of the ecosystem restoration component perhaps allocating at least two hours on the Agenda, as well as the levee system integrity component, probably an update on storage and conveyance.

Then at the April meeting what we are dealing with is an outline of the integrated alternatives with the storage and conveyance configurations. And so that's kind of building through these presentations to the point of trying to answer these questions.

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1 As we have configured these things come April  
2 does that still represent the adequate set of alternatives  
3 to get the full assessment done on it.

4 And then the other issue and this is kind of  
5 the programmatic issue Steve and Rick will get into, given  
6 the level of detail that one conducts programmatic analysis  
7 what kinds of assurances are needed to keep these  
8 alternatives moving forward?

9 And what we are seeing is a lot of the issues  
10 that come up tend to lead to the assurances effort.

11 Okay. Kind of one last formulation of the  
12 timeline (indicating) for kind of the whole program, you  
13 know, where we are now, continuing in the alternative  
14 component refinement, looking at impact assessment,  
15 identifying kind of that first preferred alternative with  
16 the agencies and, you know, identifying that process moving  
17 to the public process and moving on to kind of the final  
18 product at the end of next year.

19 So that's basically the schedule, where we are  
20 trying to fit these pieces in and where we are headed in  
21 the next couple of meetings with the Bay-Delta Advisory  
22 Council.

23 CHAIRMAN MADIGAN: Questions?

24 Mary, then Alex.

25 MS. SELKIRK: I'll try to figure out how

1 parties, stakeholders to meet with and have further  
2 opportunities to comment on the plan but that the plan will  
3 basically be in place by, certainly, by the end of April.

4 So there was some concern expressed,  
5 particularly by Gary Bobker and I think echoed by some  
6 other folks at the meeting about whether this was really  
7 providing adequate time for review of the implementation  
8 objectives and the targets and the attendant actions,  
9 particularly with regard to the -- some of the recent flood  
10 activity, et cetera, to ensure that the issues raised by  
11 the flood are going to be adequately built into the  
12 restoration plan.

13 The second point that was raised by John Mills  
14 had to do with ensuring that there is sufficient -- at this  
15 point in the schedule that there is sufficient public  
16 foundation and support for the ecosystem program because  
17 that's essentially what's at the heart of this whole CalFed  
18 effort.

19 And whether or not the comment period that was  
20 going to be allowed on the restoration plan really was  
21 adequate for ensuring that there was that level of  
22 certainty and level of comfort among all of the stakeholder  
23 groups.

24 So I raise that not as a question and  
25 scratching my head.

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1 to speak in the microphone and look at you at the same  
2 time.

3 CHAIRMAN MADIGAN: It helps if you're two  
4 faced (laughter).

5 Go on.

6 MS. SELKIRK: I have to say I'm a little  
7 breathless as I look at this schedule. It makes me want to  
8 make sure that I'm aerobically fit to make it through the  
9 next year-and-a-half.

10 What I wanted to do primarily was raise an  
11 issue that came up in the ecosystem restoration work group  
12 meeting yesterday that I wanted to convey to the Council.

13 There were a couple of concerns raised by  
14 different people in the work group.

15 The first was a concern given that what we are  
16 looking at as having a draft restoration program plan on  
17 the street by late March and preparation for a public  
18 meeting on the 8th of April and then review by BDAC at the  
19 meeting on the 10th.

20 EXECUTIVE DIRECTOR SNOW: 10th of March.

21 MS. SELKIRK: Right.

22 And according to Dick's schedule that was given  
23 to -- presented at the group yesterday the CalFed staff  
24 wants comments in on the plan by May 1, but there'll be  
25 some time during the months of May and June for interested

1 You know, I don't know what there is to do  
2 about it. I know that we are really faced with this very  
3 aggressive and ambitious time schedule but I really want to  
4 make the point that there are some people certainly on my  
5 work group that are feeling pressed.

6 EXECUTIVE DIRECTOR SNOW: I'll just make a  
7 couple of comments and then I think that the real answer to  
8 the question is kind of the proof is in the pudding. I  
9 mean, when we get that plan out and we see how people deal  
10 with it because we are in the process of modifying aspects  
11 of the target, then to digress a moment for some who have  
12 followed, we had a draft targets paper that went out in  
13 December -- I'm looking to see if that was the right time  
14 frame.

15 UNIDENTIFIED VOICE: November.

16 EXECUTIVE DIRECTOR SNOW: Oh, in November.

17 And we received some 200 pages of comments --  
18 is that fair to say, Dick -- so we are in the process of  
19 integrating and dealing with a lot of those comments so we  
20 hope we are capturing a lot of the issues that people have  
21 in their minds as problems with this and we will get that  
22 out, but beyond that, one thing that's an issue and it's  
23 the problem of level of detail.

24 We are working at a programmatic level, people  
25 are wanting to review at a project level to have really

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1 precise numbers in it, but probably the most important  
2 thing is that the review or people's ability to impact  
3 what's in these plans doesn't end way back here when we do  
4 impact assessment.

5 There's opportunities all the way through this.  
6 The only time you start running into, you know, a real  
7 problem, you can't respond to somebody's legitimate concern  
8 because of your time frame is when you're all the way down  
9 in here (indicating) to the final and so we've got all of  
10 these different periods and I think what we need to do,  
11 particularly for some of the issues that the environmental  
12 community has raised recently is lay out that time frame  
13 more clearly so they see the windows where there is clear  
14 opportunity to analyze, make comments and how we would be  
15 able to respond to that.

16 And we will attempt to do that and lay out  
17 those different time frames.

18 CHAIRMAN MADIGAN: All right.  
19 I have Alex and then Ann.

20 MR. HILDEBRAND: It isn't clear to me how  
21 we are going to come up with a preferred alternative in  
22 September and then continue to decide whether those -- the  
23 components within that alternative are acceptable or not at  
24 some later date.

25 I don't see how the BDAC can endorse any

1 issues that are important.

2 MR. HILDEBRAND: I believe, although it  
3 wasn't discussed this morning, there is also a thrust to  
4 get ahead and spend the available money starting this year,  
5 and I don't know how we can do that until we've seen some  
6 of these things.

7 EXECUTIVE DIRECTOR SNOW: Yeah, there are  
8 some early implementation activities that can be undertaken  
9 under existing authorities and obligations.

10 They simply have to move forward, and category  
11 three, environmental enhancements is one example of that,  
12 and obviously a number of governmental agencies will be  
13 taking efforts to respond to the drought -- I did that  
14 earlier this morning, too -- I'm a water guy. It's either  
15 a drought or a flood and I forget which it is -- to respond  
16 to the flooding, and we would like to see that done in a  
17 fashion that is not only compatible with potential  
18 long-term but ideally actually enhances where we are going  
19 with the long-term.

20 CHAIRMAN MADIGAN: Ann.

21 MS. NOTTOFF: I think that one of -- I  
22 think your earlier comment addressed half of the concern  
23 that the environmental water caucus expressed in terms of  
24 how to deal with the ecosystem restoration plan that's  
25 under development right now, and that was you talked about

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1 component or package of components until we see at least  
2 two analyses.

3 One is the analysis of the application of  
4 solution principles to that -- those proposals, and the  
5 other is the analysis of whether it's the most cost  
6 effective way of achieving the objective, and I refer to  
7 costs not only in dollars but in water.

8 And it isn't clear to me that we are going to  
9 see that until after we, apparently, are supposed to be  
10 picking an alternative.

11 I don't see how that's feasible.

12 EXECUTIVE DIRECTOR SNOW: No. Actually,  
13 Alex, I agree that you cannot be expected to provide  
14 advice on a preferred alternative without knowing those two  
15 pieces of information and we have to provide that.

16 What we would be asking in the April -- at the  
17 April meeting is kind of a judgment on this -- these range  
18 of alternatives into the impact assessment.

19 What we have to then bring back as we are  
20 starting to ID the preferred alternative is the results of  
21 our impact assessment, to be able to provide you advice  
22 that, you know, this configuration of alternatives works  
23 better than this configuration in terms of meeting the  
24 objectives and solution principles and solution principles  
25 do include affordability and equity and those kinds of

1 how there will be time for public review and I'd like to  
2 see some more details on that to see how that works.

3 But the other part of our concern that we  
4 raised is actually the technical capability of fully  
5 integrating both the public comments that have already come  
6 and the providing -- you know, putting together a plan that  
7 is -- does reflect the best thinking in the country in  
8 terms of this incredibly complex ecosystem restoration  
9 program that we've undertaken and that there be -- so that,  
10 you know, there is time for a peer review of a nationally  
11 recognized panel of this -- of the procedures proposed here  
12 before we get it out for public review so that we have the  
13 best product that we can come up with and then that the  
14 public is then being asked to comment on it.

15 I don't see -- do you have a response as to how  
16 you would fit that into this snowball?

17 EXECUTIVE DIRECTOR SNOW: Not in a  
18 specific time period, but there is complete agreement that  
19 there needs to be -- the term we've been using is blue  
20 ribbon panel of not disinterested but not associated with  
21 interest in the system to come in and give an objective  
22 review, not only of the ecosystem restoration program but  
23 kind of other aspects of the program and we do intend to do  
24 that, to be able to provide that as additional input to  
25 both BDAC and CalFed.



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1 CHAIRMAN MADIGAN: Tom and then Roberta.  
 2 MR. MADDOCK: Yeah.  
 3 Lester, could you just, coming back to what  
 4 Alex was saying and others, what kind of information will  
 5 be available there prior to September or at September to  
 6 permit then an assessment of the alternatives so that a  
 7 preferred alternative can be then selected?

8 In other words, could -- is there some way you  
 9 could arm us and, you know, you don't have to have the  
 10 information but what type of information --

11 EXECUTIVE DIRECTOR SNOW: Yeah.

12 MR. MADDOCK: I mean, you may not have all  
 13 of the answers and the details, but is there a compendium  
 14 that could be identified, and I realize everybody is  
 15 working to try to get this done and I'm not asking for  
 16 a -- the level of detail but only the information that then  
 17 permits that selection to be made.

18 EXECUTIVE DIRECTOR SNOW: You know, we  
 19 could provide something at the next meeting that -- we  
 20 could send out, as I think we did maybe nine, ten months  
 21 ago, the list of all of the variables that have to be  
 22 assessed as you go through NEPA/CEQA, and it's a formidable  
 23 list and I think we shared that at one point but what would  
 24 be more useful is if we distilled that to some of the key  
 25 categories that we have to provide information in order for

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1 anybody to make a rational decision, and we've talked  
 2 internally about how do we make these long almost endless  
 3 list of factors you have to evaluate into a user friendly  
 4 type of document, and we can provide that for the next  
 5 meeting.

6 I think that would be very useful and timely.

7 MR. MADDOCK: Thank you.

8 CHAIRMAN MADIGAN: Roberta and then Ray.

9 MS. BORGONOVO: I'm just echoing the  
 10 sentiments of other people.

11 Part of the problem was you talked about the  
 12 windows of opportunity, and I think that that's not just  
 13 difficult for the environmental community but for all of  
 14 the other groups that want to give input into the process  
 15 before you come up with that final preferred alternative.

16 So it was having time to have that feedback and  
 17 it's come up in some of the other work groups, too, we  
 18 talked about it in the finance work group and for the work  
 19 groups to feel that they are contributing to that final  
 20 alternative they need time to sift through. There was a  
 21 concern that the number of technical teams that you have  
 22 working have that work coming so late again that we are not  
 23 getting the feedback from the groups.

24 So the concern was that there be time for that,  
 25 and it was also important for trying to bring in not just

1 those of us that have been following the process for now  
 2 three or four years, some of us for several decades of our  
 3 lives, but for all of the people in California that are  
 4 impacted by it.

5 And so one of the terms used yesterday in the  
 6 ecosystem work group which I liked was that CalFed was the  
 7 wholesalers and we're all the retailers, but the retailers  
 8 have to be able to explain it to their customers.

9 And so I think that that was part of this  
 10 concern over the timeline.

11 CHAIRMAN MADIGAN: Thank you.

12 Ray.

13 MR. REMY: Yes, as I recall, we are the  
 14 advisory commission to CalFed. We give advice and counsel  
 15 and CalFed is the one that ultimately I guess has to be the  
 16 decision making body by which one blesses a preferred  
 17 alternative or whatever.

18 Is it possible that CalFed might do something  
 19 different than this group or is this group's advice and  
 20 counsel binding?

21 And if it does do something different, is there  
 22 a place on that chart where CalFed acts or people will  
 23 petition CalFed? How would that process work in terms of  
 24 decision making?

25 EXECUTIVE DIRECTOR SNOW: Well, let me

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1 give kind of a quick overview and then Michael and Roger  
 2 from the prospective CalFed may want to add.

3 The decision making authority lies with the  
 4 CalFed agencies in terms of who has been designated as lead  
 5 agencies and, you know, responsible parties and that sort  
 6 of thing so CalFed as the ten entities will render a  
 7 decision on the final document; however, it's not very  
 8 likely that you would see these ten agencies render a  
 9 decision that was not supported by a wide stakeholder  
 10 community.

11 And so I think that these efforts have to kind  
 12 of go along in tandem.

13 They will make the decision. They are  
 14 responsible for making the decision, but they are sure  
 15 going to want to know where the stakeholder community is as  
 16 they move forward with this.

17 CHAIRMAN MADIGAN: Roger, do you want to  
 18 add to that?

19 MR. PATTERSON: well, I think Lester is  
 20 right in that we know that the CalFed agencies together  
 21 will have to make that decision, but we have this Council  
 22 for the purpose of trying to bring together those views  
 23 from the various communities, and I think we've talked  
 24 about before how important it will be to CalFed to know if,  
 25 in fact, we don't have a consensus in every particular area

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1 to know the variance of those views and why those views are  
2 held, et cetera.

3 And so I can't see the agencies wandering very  
4 far from the advice of this Council, but it's important  
5 that we have the thorough advice, including where there may  
6 be differences of use.

7 CHAIRMAN MADIGAN: Michael.

8 MR. MANTELL: I would only add that the  
9 other opportunity for this (inaudible) -- not only for this  
10 group but those documents are out for public review.

11 So those comments will be factored in but it's  
12 inconceivable to me that CalFed would act in a manner that  
13 disregards the consensus of this group.

14 CHAIRMAN MADIGAN: Sunne.

15 MS. McPEAK: Mr. Chairman, I think this is  
16 almost a final discussion about are we getting close?

17 In most of the other meetings the concern or  
18 complaint that I heard before the meeting and coming out of  
19 the work groups was that we weren't moving fast enough and  
20 now I'm hearing exactly the opposite so that's a good  
21 indication that we are making progress, but, you know, the  
22 Record of Decision is more than 18 months out.

23 I have great confidence in the people in this  
24 room and in the participants in the workshops that we can  
25 get these issues running forward. The blue panel peer

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1 review process, for example, should be entirely possible  
2 running through much of the impact analysis and preferred  
3 alternative even through public review and still have  
4 information before us, not to mention the final public  
5 review process, and if it's not working, if people aren't  
6 comfortable, what was just expressed by the Federal and  
7 State agencies is exactly the reality, the thing isn't  
8 going to go.

9 So my frustration is still that we haven't been  
10 moving quickly enough.

11 I'm pretty confident now looking at this  
12 schedule that we are getting into some substantive  
13 discussion and what we hear today and what we hear April  
14 should be moving us towards identification of where we've  
15 got some real differences and need to get resolution on it.

16 EXECUTIVE DIRECTOR SNOW: See, our  
17 schedule is already starting to slip (Laughter).

18 CHAIRMAN MADIGAN: Right, I agree, Sunne.

19 I have Alex and then Jack.

20 MR. HILDEBRAND: The item on the Agenda  
21 also includes a discussion of the programmatic level of  
22 detail and I'd like to comment on that if this is the  
23 appropriate time to do so.

24 I have some problems with the illustrations  
25 that are given here.

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1 Regarding storage, the objective is not just to  
2 increase storage capacity regardless of whether you can  
3 fill it.

4 The objective is to increase the effective  
5 water supply, and we should focus on increasing water yield  
6 where that yield can be most effectively used in terms of  
7 the benefit to the water supply and to stream flow, water  
8 quality and flood control and so forth.

9 This is not just a function of storage  
10 capacity. So if we start examining the programmatic  
11 business where we can put storage I think that's not an  
12 adequate assessment.

13 Then if you go over to water quality, if you  
14 look at the paper by the water quality committee, it  
15 correctly states that the objective is to reduce harmful  
16 effects of the water parameters of concern.

17 When you read the parameters that are proposed  
18 to be reviewed in the level of detail, it talks as if every  
19 dissolved constituent was a pollutant regardless of its  
20 concentration or the use to which it's going to be put, it  
21 talks of having a single program for addressing pollution.

22 It's an entirely different kind of thing. The  
23 two don't go together.

24 And in the question of efficiency we seem to  
25 continue to focus on sort of the conventional issue of how

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1 efficiently does each user use the water and we are not  
2 addressing some substantial opportunities for examining the  
3 same question on the watershed basis where you increase the  
4 multiple use and reuse of water rather than just the  
5 efficiency use of any one user.

6 So I'm apprehensive that we get started on  
7 programmatic assessment that really doesn't go to the  
8 objectives in some cases of what it is we are trying to do.

9 CHAIRMAN MADIGAN: Thank you. Jack.

10 MR. FOLEY: I'm not going to answer  
11 Alex's question.

12 I'd rather just go back to our previous point.  
13 I would like to cast my inclination into moving forward on  
14 the schedule.

15 You know, we are in the last third of our life  
16 of the Accord and this December it expires, and this was  
17 really the cornerstone, I think, that brought about our  
18 charge and why we are here today.

19 I do understand the concern of meaningful  
20 public input, but I think when you come out with the more  
21 specifics, you are going to get the more public input and  
22 honing in on the real issues.

23 So I would just encourage particularly since  
24 the staff seems confident that they can accommodate that  
25 schedule, I think we should move forward with it.

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1 CHAIRMAN MADIGAN: Thank you.  
 2 All right. I have a speaker slip from  
 3 Mr. Bobker. Gary.  
 4 MR. BOBKER: Thank you, Mike.  
 5 I'm Gary Bobker with the Bay Institute in San  
 6 Francisco and the Environmental Water Caucus. EWC has  
 7 written a letter to Lester concerning issues with the  
 8 schedule. I want to discuss that because this seems like a  
 9 good time. We raised issues as to whether the schedule can  
 10 capture -- meeting the schedule will allow us to get to the  
 11 long-term solution that we all want.  
 12 I want to stress that EWC in raising these  
 13 issues, we are not nervous about the fact that the process  
 14 is moving forward fast just because of some vague concerns  
 15 about the pace.  
 16 We have some very specific concerns about  
 17 whether the pace will allow us to do some very important  
 18 things and, that is, get to where we want to go and make  
 19 sure we have all of the tools that we need to get there.  
 20 EWC is very supportive of the need for a comprehensive  
 21 long-term solution and that is why we have put a lot of  
 22 resources, staff, and money into inputting into CalFed.  
 23 We intend to continue to do that, but you can't  
 24 transmute lead into gold at the end of the process if the  
 25 process doesn't do everything it needs to do.

1 yet.  
 2 Until they are there it's going to be  
 3 impossible in our view to really evaluate whether an  
 4 alternative is going to be successful in achieving success  
 5 and reaching the end point when you don't have a good  
 6 enough idea of what your end point is.  
 7 That's a real problem.  
 8 We think we need a little more time to go  
 9 through the process of completing setting criteria, setting  
 10 criteria for success basically.  
 11 Secondly, in terms of having all of the  
 12 tools -- by the way, I should also mention that the tools  
 13 to -- the assessment tools, methodology still needs some  
 14 work as well. That's a critical part of the technical  
 15 process of evaluation.  
 16 I don't think that we are quite there yet and  
 17 we need a little more time to do that.  
 18 The second part, which is do we have all of the  
 19 tools, there is a big controversy that's been raging for at  
 20 least six months if not more about the inclusion of  
 21 aggressive demand reduction strategies in the tools that  
 22 CalFed is going to look at, whether it's the water use  
 23 efficiency common program or whether it's variance of that.  
 24 And the alternatives, the environmental  
 25 community is very concerned that some of the those

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1 The hopes that we have had for CalFed have been  
 2 premised on three assumptions.  
 3 One, is that for once we had a program project  
 4 that is about restoring the environment.  
 5 It's not a side bar. It's central to the  
 6 process.  
 7 Number two, this was a process that was going  
 8 to look at every tool on the table unprejudiced.  
 9 And, three, it was going to be an exhaustive  
 10 review.  
 11 Now, here we are poised according to the  
 12 Cal-Fed schedule to start evaluating the impact of the  
 13 alternatives and are we ready to do that?  
 14 Well, if you look at those three hopes that we  
 15 had, let's sort of assess that for a moment.  
 16 Number one, the mission of CalFed to restore  
 17 ecological health and improved water management, what's the  
 18 end point?  
 19 It's a difficult and complex task to define  
 20 ecological health but to a certain extent we have to do  
 21 that.  
 22 We have to decide what the end point is, where  
 23 do we want to go?  
 24 CalFed is putting a lot of effort into trying  
 25 to do that. We are supportive of that. They are not there

1 aggressive demand reduction tools aren't captured in terms  
 2 of both aggressive implementation of water conservation  
 3 measures or some of the things like land retirement.  
 4 I want to stress by the way that the insistence  
 5 upon having land retirement measures -- land retirement for  
 6 water use efficiency, not just land retirement for say  
 7 drainage is not because we want to see land taken out of  
 8 production for its own sake.  
 9 It's because we see that potentially the very  
 10 important tool for reaching a durable reachable long-term  
 11 solution and right now the land retirement for drainage we  
 12 think that's good for water quality. We don't know that  
 13 that's going to help us reach some of our other water  
 14 conservation goals nor are we confident that some of the  
 15 incidental retirement that might occur for habitat purposes  
 16 is going to do that, too, because we don't really know the  
 17 fate of the water.  
 18 So there's real concerns about whether some  
 19 very feasible options are going to be evaluated.  
 20 It's not necessary for everyone to agree that  
 21 they are right. We don't have to argue about them from a  
 22 policy level. The point is if they are feasible options we  
 23 should be looking at them.  
 24 If we are not, that's a real problem.  
 25 Third, we want an exhaustive review and one

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1 thing that's never happened with CalFed is from the  
2 beginning we sort of set this artificial deadline. The  
3 three years popped out of nowhere, you know, apparently  
4 because of the Accord. No one ever really sat down I don't  
5 think from the beginning and said as you would in an  
6 ambitious EIS/EIR process what exactly -- what time do we  
7 need to do the job right?

8 What I think is we had an artificial deadline  
9 we tried to juggle and I have a lot of sympathy for CalFed  
10 staff and for Lester in trying to meet that artificial  
11 deadline but I don't think it's going to work to do some of  
12 the things that we need to do.

13 I want to comment, by the way, on the  
14 folks -- there are a lot of folks who say that the Accord  
15 is kind of setting the parameters here.

16 The Accord is a historical footnote. The  
17 Accord is now captured in our Water Quality Standards, our  
18 operating arrangements. Most of what's in the Accord is  
19 actually now part of the landscape. We are going to be  
20 living in that landscape for quite a while and I don't  
21 really think that that's what should be driving us.

22 And, frankly, although, you know, Sunne  
23 referred to the fact that, you know, a lot of folks felt  
24 that things weren't moving fast enough, most of the people  
25 that I've talked to both, you know, within the agencies in

1 EXECUTIVE DIRECTOR SNOW: Yeah.  
2 I think what I would say just kind of in  
3 response to these issues is that, again, we need to start  
4 bringing those more detailed documents and they will at  
5 that point speak for themselves on how we move forward on  
6 this.

7 So to some extent, particularly for BDAC, it  
8 becomes an incremental issue of making judgments about  
9 that.

10 What I'd like to do if we can is kind of move  
11 on and start dealing with some of the programmatic issues  
12 and level of details stuff that's also quite important to  
13 decision making.

14 And Steve is going to start off with that.

15 CHAIRMAN MADIGAN: Mr. Yaeger.

16 MR. YAEGER: You are going to have to bear  
17 with me a little bit today. My voice -- I've got a little  
18 chest cold thing going but we'll try and deal with that.

19 I'm sure you recognize this diagram. We've  
20 been using this for several months since the start of  
21 Phase II, try and describe the steps we are going to go  
22 through in Phase II.

23 Lester has given you some of the milestones we  
24 are looking for, what kind of products you are going to see  
25 in the April time frame, the outline of the alternatives

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1 the stakeholder community, privately all agree that the  
2 schedule is a joke but nobody is willing to make an issue  
3 of it.

4 Personally, I think that if you're not willing  
5 to make an issue of it when you know that it's inadequate  
6 then you have to shoulder some of the blame for if the  
7 process goes awry.

8 We are at a crossroads right now I think where  
9 we can continue to go on this schedule without really  
10 assessing exactly what we need to do these foundational  
11 actions, defining the end point a little better, making  
12 sure we capture all of the options, or we can continue down  
13 this path.

14 And the problem with continuing down this path  
15 is it's very hard to correct these kinds of problems that I  
16 referred to at the end of the process. You really kind of  
17 have to address them now.

18 As I said, EWC has put a lot of energy into  
19 CalFed. We continue to have hopes for CalFed and we really  
20 think that in order for CalFed to be successful at  
21 achieving a long-term solution it has to grapple with this  
22 issue now and we urge it to do so.

23 I guess that's about all I want to say, Mike.

24 CHAIRMAN MADIGAN: Okay.

25 Lester, do you want to say anything?

1 and then later on in the August, September time frame,  
2 other products, such as a draft analysis of impacts, the  
3 draft facilities operation concepts, and draft assurances.

4 What we wanted to do this morning was to focus  
5 again on the programmatic level of detail to reinforce some  
6 of those discussions we've had over the past six or nine  
7 months and get a little better understanding of what the  
8 products are going to look like that you're going to see in  
9 the April through September time frame.

10 Again, to back up a little bit, we've been  
11 working in this area for the last three or four months  
12 refining components, detailing the interactions between  
13 components and we'll be working in Step 2 and Step 3 in  
14 this time period between now and April in bringing together  
15 the integrated alternatives and bringing those outlined  
16 alternatives to you in the April time frame.

17 The impact analysis and the draft environmental  
18 document will continue after April and up through September  
19 and you'll be seeing those products, of course, in the  
20 August, September time frame.

21 We feel this need to go over the level of  
22 detail again in order to be clear, as I said earlier, so  
23 when you see these products in April, the programmatic  
24 description of the alternatives and the later products,  
25 that there won't be confusion over where we are going in

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1 this stepped process.

2 It's been expressed, you know, a lot of concern  
3 over why we are at the programmatic level, why we haven't  
4 gone straight to the site specific analysis level. So we  
5 wanted to back up and again walk through some of the  
6 reasons and the rationale for working through this in a  
7 stepwise process, working at the programmatic level and in  
8 Phase III moving into the site specific analysis level.

9 These are some of the main reasons that we have  
10 identified some of the advantages of moving forward at the  
11 programmatic level.

12 Number one, it provides opportunities  
13 to -- that should say analyze -- a wide range of components  
14 and prove out the concepts, develop a better understanding  
15 of benefits and adverse impacts.

16 We've talked a lot over the last several months  
17 about the complex interrelationships between the  
18 components.

19 We are dealing with four resource areas;  
20 levees, water quality, water supply reliability and  
21 ecosystem, and as we bring together the components and look  
22 at the interactions between them that's better done at the  
23 programmatic level before you move forward into site  
24 specific.

25 Just to cite a little example, for instance, in

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1 our water quality program you'll be hearing some more about  
2 that this afternoon, but we have some elements of that  
3 program that address toxic source control.

4 In the analysis of benefits and impacts as we  
5 look at that there are, of course, interrelationships with  
6 the ecosystem restoration program.

7 You have linkages and impacts with wetlands and  
8 habitat development there. You also have linkages and  
9 impacts with the storage element and even with the  
10 conveyance element.

11 And so by approaching it at a programmatic  
12 level it allows you to prove out the concepts, how does the  
13 toxic source control interact with the habitat restoration  
14 item? How does it interact with storage and conveyance?

15 And you are dealing with it at a level that  
16 allows you to understand those relationships better at that  
17 initial stage before you start moving into the site  
18 specific parts of source control.

19 We actually already talked about this second  
20 bullet, it allows more effective evaluation and unnecessary  
21 complexity. We have so many actions within our programs  
22 that the interactions and the linkages become much too  
23 complex to try and analyze and understand and to calculate  
24 benefits and impacts unless you do it at a programmatic  
25 level and then it provides this better understanding of the

1 system, the interrelationship and the linkages, promotes  
2 more efficient use of the time and resources. So that as  
3 you're moving through the analysis of the programmatic  
4 level you can make adjustments and changes to the programs  
5 as impacts become apparent and you don't risk moving to the  
6 site specific and finding an impact that you weren't aware  
7 of and being forced to move back and start all over again  
8 with a major change in the program.

9 Programmatic analysis -- is that high enough  
10 for people to see -- provides a sufficient level of  
11 information for decision making without being so cumbersome  
12 that you are not able to sort through the volumes and  
13 volumes.

14 For instance, if we had gone to site specific  
15 analysis of our program, we would probably anticipate that  
16 the stack of documents would be about that high  
17 (indicating) and it would be impossible to sort through all  
18 of that information, understand it completely to make the  
19 decisions that need to be made.

20 And the other real important part of  
21 programmatic is it allows for what we call incremental  
22 agreement building, of building agreements around the  
23 assurances that will link the programs and guarantee that  
24 the ecosystem program does move all the way to completion  
25 and that water supply reliability does move to completion.

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1 And it provides for this incremental decision  
2 making, too.

3 Lester showed you some of the types of  
4 recommendations you are going to be asked to make in the  
5 September time frame.

6 There will be other types of recommendations as  
7 we move through the final programmatic environmental  
8 documents and then further as we get into site specific  
9 environmental documentation then there will be  
10 recommendations that can be made at the site specific  
11 level, also.

12 We have a couple of examples I'd like to walk  
13 through to, hopefully, try and develop a little better  
14 understanding about how this works.

15 And, again, this is a hypothetical example.

16 Please don't take any of the information we are  
17 presenting here as indicating what the program is laying  
18 out at this point, but I want to walk through some of these  
19 operational concepts that we are working on in this phase  
20 of the program and then show how those might evolve into  
21 Phase III into site specific.

22 Again, the way this ties into the  
23 recommendation, as we said earlier, you'll be seeing  
24 these -- an operational concept plan and later in the  
25 August time frame it will tie in the concepts with

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1 the -- the operational concepts with the facilities.

2 At this stage we are working with our technical  
3 teams and stakeholder groups to try and develop these  
4 concepts for operation of the facilities.

5 This one focuses on north of Delta Storage.

6 For instance, there are several concepts being  
7 developed about x2 protections.

8 Should those protections be enhanced?

9 Should they be relaxed under certain  
10 circumstances?

11 There are concepts being developed for  
12 diversion points in the Sacramento River where you'd be  
13 moving water into north of Delta Storage.

14 You'd have a diversion point on the Sacramento  
15 River between Chico Landing and Verona, also concepts for  
16 other diversion points.

17 Similar concepts for how the water would be  
18 moved into storage.

19 It's been suggested at some point that we ought  
20 to only move water into storage when the second peak of the  
21 flood season has passed in order to preserve the  
22 geoflubial (phonetic) classes in the river and further that  
23 the diversion would be limited by the presence of salmon.

24 This is the level of the operational concepts  
25 that we are working on in the programmatic level.

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1 I'm going to skip that one.

2 In contrast that in Phase III then insights  
3 specific implementation those types of conceptual operating  
4 parameters would move into -- more towards criteria and  
5 you'd start defining the x2 criteria at a lot higher level.

6 Specificity would be defining the diversion  
7 point on the river at river mile Y, river mile 200, river  
8 mile 23, whatever that is.

9 And you'd be defining more precisely how you  
10 would move water to storage.

11 You might arrive at the agreement that we would  
12 only move storage -- water to storage north of Delta  
13 whenever river flows are above 45,000 cfs, and it would be  
14 just the second river peak of the year that we'd start  
15 diverting and it would be -- diversion would be limited by  
16 realtime monitoring detection of z number of salmon smolts.  
17 So we'd be getting down to that level of detail on the  
18 operational concepts in Phase III.

19 Similarly, on the assurance concepts that go  
20 with the facilities and with the operating concepts, in  
21 this Phase II, programmatic phase, we are working on  
22 concepts for standards that would implement that x2 that we  
23 are talking about, concepts for agreements and contracts to  
24 implement the diversion concepts that we talked about, to  
25 guarantee financing of the storage and to assure

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1 implementation of the water supply part of the program.

2 And then by contrast when we get to Phase III  
3 of the program, then we'll be getting down to another level  
4 of detail on those assurances.

5 We will be looking to negotiate precise  
6 standards to implement x2 criteria, for instance.

7 We'll negotiate for revisions of contractual  
8 agreement around those criteria for diverting water into  
9 storage and for contractual agreements to finance the  
10 environmental storage and water supply storage and so  
11 forth.

12 So that was kind of a quick walk-through on the  
13 operational concepts part of the program and the assurance  
14 concepts part of the program at the programmatic level.

15 And I'm going to hand off now to Rick  
16 Breitenbach, who is going to walk you through the  
17 alternatives outlined and show you some examples of how  
18 that differs between programmatic Phase II and the site  
19 specific Phase III.

20 CHAIRMAN MADIGAN: Actually, Steve, what I  
21 want to do is take a break here because Director Kennedy  
22 has arrived and Colonel Peixotto has to be out of here by  
23 noon.

24 We had mentioned to you earlier that at some  
25 point this morning we would take a break and give you a

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1 status report and assessment of the flood of 1997.

2 That time is now.

3 We'll start off with about a five-minute video  
4 showing you some of the activity from the flood.

5 Director Kennedy and Colonel Peixotto then will  
6 give you their comments on what took place and maybe be  
7 available for a few questions if you have them.

8 And, certainly, Roger Patterson is here to  
9 respond as well and then Lester has some overheads to talk  
10 about some of the linkages of the flood management actions  
11 with the actions of this program.

12 And I understand, Tom, that you have some  
13 things that you'd like to distribute as well.

14 MR. GRAFF: (Affirmative nod)

15 CHAIRMAN MADIGAN: Lester.

16 EXECUTIVE DIRECTOR SNOW: Well, I think to  
17 start off we just want to show kind of a quick video, a  
18 little less than five minutes.

19 It's just -- nothing that's polished but kind  
20 of gives you a feel for some of the flood damage that was  
21 done and some of the flooding incidents shot in a  
22 helicopter with just some narrative as it's being shot just  
23 to kind of give you a feel and then we'll ask Director  
24 Kennedy to kind of talk about some of the issues that have  
25 happened during the flooding.

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1 So if we could go ahead with the video.

2  
3 (Whereupon the selected High Water Scenes  
4 video was shown after which the following  
5 proceedings were had:)

6  
7 CHAIRMAN MADIGAN: Well, any questions?  
8 Dave, thank you very much for coming by to join  
9 us this morning.

10 Everybody, obviously, is very interested in  
11 this whole question and what you have to share with us.

12 DIRECTOR DAVID KENNEDY: Good morning,  
13 Mr. Chairman and members.

14 I believe you are going to have Colonel  
15 Peixotto afterwards, is that right?

16 CHAIRMAN MADIGAN: (Affirmative nod)

17 DIRECTOR DAVID KENNEDY: He and I had a  
18 little bit of a duel yesterday over across the street.

19 Well, as you saw from the video and I think you  
20 are all aware, we've had a storm of historic proportions  
21 here in Northern and Central California.

22 We are still picking up the pieces and, in  
23 fact, the San Joaquin Valley there is still a lot of high  
24 water coming through.

25 I don't know if Alex has the update but I think

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1 Mossdale is projected to increase just a little bit more  
2 before it goes down.

3 So what I'll do is just review very briefly a  
4 few of the background facts and I don't know if you want to  
5 ask me questions or take on the Colonel, whatever you'd  
6 like to do.

7 Putting it in context this actually is a  
8 historic storm in terms of how big it was.

9 On the Feather River we had the largest inflow  
10 to Oroville reservoir that we've ever had.

11 The best we know it's the highest three-day  
12 volume that's ever come through the Feather River canyon at  
13 that point, about 1.4 million acre feet came into Oroville  
14 reservoir over a three-day period and if you translate that  
15 out, those are -- we had the better part of a day over  
16 300,000 cubic feet per second of capacity.

17 We were at least, I noticed on the video they  
18 had Oroville spilling at I think it was 120. It was on the  
19 way up to 160,000 cubic feet per second, which is a release  
20 of about 320,000 acre feet in a day.

21 So it went up to the highest that we've ever  
22 had.

23 Previously in '86 we released 150,000. This  
24 was 160,000.

25 You might have seen some comments or press

1 pressed to the effect that on New Year's day there was a  
2 period of about eight hours where we were actually being  
3 told by the meteorologist that we could expect inflows of  
4 400,000 cubic feet per second and there was information put  
5 out to the city of Orville and others that we were probably  
6 going to have to use the emergency spillway.

7 It was on that basis that they evacuated  
8 Oroville.

9 Now, fortunately, those flows did not  
10 materialize. That was projections of what the weather  
11 service calls QBF's as to what was going to be coming over  
12 the next 12 to 24 hours.

13 A lot came but that that they were projecting  
14 on New Year's day did not come so we did not get up to the  
15 inflows that were projected. But there is starting to be  
16 quite a bit of discussion about that and I wanted to just  
17 mention that.

18 We had two very serious and tragic breaks on  
19 the Sacramento River flood control system, the one on the  
20 Feather River and the one over at the Sutter bypass where  
21 there was a loss of life in the RD 784.

22 It's interesting that on both of these cases as  
23 best we can tell the channels were running at about at  
24 capacity; that is, these were not overtopping breaks.

25 These were breaks in some form of seepage

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1 through the levee.

2 I don't want to say very much about it because,  
3 of course, we are already starting to be sued about this  
4 and there will be lots of time to sort out exactly what did  
5 happen, but I think it's worth noting that the water did  
6 not overtop the levee on either the Feather or the Sutter  
7 bypass.

8 It was some form of seepage that got away.

9 Again, getting putting that in a perspective or  
10 context, altogether there were several hundred bites on  
11 boils throughout the whole system.

12 That is, the Feather break, there was a boil  
13 being actively worked on and it just simply overwhelmed the  
14 people working on it and the levee collapsed on them.

15 But throughout the system as a whole there  
16 were, I think, probably two to three hundred significant  
17 boils that had to be worked on and these two in particular  
18 got away.

19 Now, going on the San Joaquin system there were  
20 more breaks than we had in the Sacramento.

21 I think there's probably 12 to 15 breaks  
22 depending. There's several where there were multiple  
23 breaks in a given reach of levee but on the order of 12 to  
24 15 breaks.

25 And those are still, of course, being worked

1 on.

2 The two breaks up in the Sacramento system have  
3 both been closed.

4 That is, the original breaks have been closed.

5 But in both cases we had to cut breaches  
6 further down, further south on each of those districts and  
7 in order to drain the water out on the -- one on the  
8 Feather, the water is backing in there again from the Bear  
9 River and re-flooding some of the area that's been flooded.

10 That's happening to some extent also up on the  
11 Sutter bypass break.

12 Now down on the San Joaquin system shifting  
13 back to there for a moment it's been harder to get into  
14 some of those areas. They have been so wet and they were  
15 basically inaccessible so the Corps has had a hard time  
16 coming in and getting some of those breaches fixed. The  
17 Corps has been very responsive to the State in all of this.

18 The basic way this works is the local districts  
19 do their best. As soon as it gets beyond their ability to  
20 respond and they call us in.

21 We size it up as quickly as we can.

22 If we can handle it with State crews like CDF  
23 or CCC or the prisoners, then we deal with it.

24 If it's beyond our ability, then we turn to the  
25 Corps quickly.

1 Lake from the Sierras.

2 There is, of course, a big snowpack up there so  
3 Tulare Lake is going to be dealing with water for quite a  
4 number months to come and you'll be hearing a lot more  
5 about that.

6 The Governor has appointed an action team to  
7 respond and make recommendations to him.

8 It is composed of State officials and then  
9 we've also asked the Federal officials to participate which  
10 they are doing.

11 Basically, the Governor has asked that he get a  
12 report within 30 days of when he asked for it, which will  
13 be the 10th of February and then there will be another  
14 report four months from when he asked for it.

15 The FEAT as it's called, Federal -- I mean the  
16 Flood Emergency Action Team is working every day to deal  
17 with this.

18 Basically, we are responding to three or four  
19 specific requests of the Governor.

20 One is to make sure that the initial response  
21 is well coordinated and as effective as can be.

22 Then to deal with fixing the system in the near  
23 term because we are only halfway through the winter and  
24 we've still got quite a ways to go and we may have more of  
25 this before it's over.

1 There have been a couple of dozen incidents  
2 here where we have asked the Corps to come in.

3 In each one of them we actually write a letter  
4 and describe the situation and they respond.

5 I should clarify that they don't wait for the  
6 letters to be done.

7 It's hard for me to imagine an agency being  
8 more responsive than the Corps has to the State in this  
9 case.

10 They had people in our offices, in our flood  
11 center, working with us as each incident unfolded and in a  
12 number of instances they had contracts out there underway  
13 as the paperwork was being done.

14 So while some of these don't go as fast as we'd  
15 all like, the Corps really has just responded in a  
16 remarkable way in each instance to try to get contractors  
17 on their way and out in the field and working.

18 One other area that's going to get more  
19 flooding as we speak is Tulare Lake.

20 It is being flooded right now.

21 There is a big snowpack up there. I think  
22 yesterday I heard there is maybe 20,000 acres under water.

23 It's divided into a lot of cells and I was told  
24 that there would probably be 30,000 today.

25 There is a lot of water still coming to Tulare

1 And then we are supposed to report back with  
2 recommendations on the long-term as to what needs to be  
3 done.

4 Let me just comment briefly about that because  
5 I think some of that relates to the work that this group is  
6 doing.

7 In the -- first, in the Sacramento River system  
8 to some extent the system operated as it's been designed to  
9 do.

10 We have quite a bit of reservoir storage. We  
11 have bypasses in the Sacramento River system, and if you'd  
12 put aside these structural breaks that have occurred in the  
13 system, the system passed the water that it's intended to  
14 pass.

15 Now, on the San Joaquin system it's really a  
16 different matter. There is large areas ponded and I think  
17 that we really need to undertake a very large scale review  
18 of the San Joaquin system as to the basic design philosophy  
19 there. We need to ask ourselves such questions as more  
20 bypasses. There are some bypasses in the San Joaquin  
21 system but not in the north part of the system.

22 The south part of the Delta for all practical  
23 purposes where the San Joaquin system comes in is a choke  
24 point for that whole valley, and one of the things that we  
25 all need to address is do we need some form of bypass



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1 equivalent to the Yolo Bypass in the San Joaquin system?  
 2 Now, it's easy for us to say and raise those  
 3 questions conceptually. Whether it works out in the  
 4 practical land use issues down in that part of the Valley  
 5 are another question but it needs to be very seriously  
 6 looked at because the San Joaquin system just does not have  
 7 the capacity to handle these rain type floods that we are  
 8 having.  
 9 It's designed for a snow type flood and snow  
 10 melt flood and it's had to do with a huge amount of rain  
 11 that it never had to deal with before.  
 12 So there are some very basic questions there  
 13 about the design of that system.  
 14 I think some of these get over into such areas  
 15 as habitat, restoration development, if we are going to  
 16 need big ponding areas or bypass areas, then certainly they  
 17 should serve dual purposes of -- well, several purposes.  
 18 In carrying flood waters they should be able to  
 19 be farmed just like the Yolo Bypass is when it's not  
 20 flooding and certainly this looks like an opportunity for  
 21 some habitat restoration so we've started some discussions  
 22 with Lester and I'm sure you are going to be hearing and  
 23 seeing a lot more about this in the coming months.  
 24 I think, Mr. Chairman, I'll just stop there and  
 25 see if you folks have any questions you'd like to ask me.

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1 CHAIRMAN MADIGAN: why don't we ask  
 2 Colonel to come forward, Colonel Peixotto.  
 3 Thank you very much for being here today, sir.  
 4 And, certainly, a terrific report by Director  
 5 Kennedy in terms of cooperation of the Corps and I'm sure  
 6 everybody in the state appreciates that.  
 7 COLONEL PEIXOTTO: Thank you very much,  
 8 Mr. Chairman.  
 9 I've been involved over the years in a number  
 10 of disasters in a number of states and I've never seen the  
 11 cooperation that has occurred between the State and the  
 12 Corps that has occurred here. It was a marvel to see. It  
 13 was a marvel to see how we worked together with this series  
 14 of reservoirs and played them like a piano, cranking open a  
 15 little here and shutting down a little here, trying to keep  
 16 the flows so they would cause the minimum damage, and it is  
 17 really a marvelous thing to see.  
 18 Mr. Kennedy described very well the levee  
 19 system and the status of that and what happened, and I will  
 20 not repeat that.  
 21 There is another very important feature of the  
 22 flood control system in the Valley and in the Delta, and  
 23 that's the reservoirs.  
 24 There is 22 reservoirs that hold significant  
 25 flood control storage.

1 Now, some of these were built by the Corps,  
 2 some were built by the Bureau, some were built by the  
 3 State, some built by the cities, some built by irrigation  
 4 districts, built by a whole host of agencies, but they have  
 5 some degree, some a lot, some a little, of flood storage in  
 6 them.  
 7 Now, these 22 reservoirs, we've heard a lot  
 8 about the 1.6 billion dollars in damages.  
 9 These 22 reservoirs by themselves prevented two  
 10 billion dollars in damages that would have occurred had the  
 11 taxpayers -- had the public not made that investment over  
 12 the decades, two billion dollars of damages that would have  
 13 occurred.  
 14 And so there is a half full part of the glass,  
 15 too.  
 16 It's certainly half empty and we look at that  
 17 and work on that very hard, but the public investment made  
 18 over the years did have a lot of benefit.  
 19 And that's not -- that doesn't even  
 20 include -- the two billion dollars does not include the  
 21 levees that did not fail and a lot of the levees did not  
 22 fail.  
 23 The Corps' role, as Mr. Kennedy said, is as a  
 24 back up to the State during the flood fight.  
 25 Our role of course in the long run is to work  
 1 with the State and the local entities to provide long range  
 2 flood protection.  
 3 I'd like to go over just a couple minutes on  
 4 what happened -- what the Corps did during the disaster and  
 5 I'll do it in four phases, during and after, four phases.  
 6 The first is the emergency response, the flood  
 7 fight.  
 8 And we were called on by the State 28 times,  
 9 and, thank you, Mr. Kennedy for your kind words on our  
 10 responsiveness.  
 11 Within hours there were contractors on-site and  
 12 we had 28 different instances.  
 13 18 are complete, ten are still underway in the  
 14 flood fight and they are still cropping up because levees  
 15 are still -- levees are saturated, the water is high. The  
 16 levees are in danger and they are constantly patrolled and  
 17 when a problem is found -- and we started two yesterday,  
 18 two additional flood fights -- we are there to help when  
 19 the State capacity is exceeded.  
 20 Of the 28 there is ten in the Delta, ten in the  
 21 Delta.  
 22 They range in size from \$59,000 that was spent  
 23 at Butte Creek to 2.2 million dollars at the Sutter bypass  
 24 for the emergency response.  
 25 To date the Corps has spent 17 million dollars

1 on the emergency response full Federal.

2 The second phase is the initial recovery. It's  
3 very important for all of us to get some degree of flood  
4 protection back.

5 A lot of damaged levees, reservoirs full of  
6 water, let's get some flood protection back. We are only  
7 midway now through the flood season. We have the snow melt  
8 ahead of us. We can't wait for dry weather.

9 We've got to get the reservoirs evacuated so we  
10 have that first line of protection. The reservoirs remain  
11 undamaged, undamaged.

12 They have water in them but they are standing  
13 there ready as the first line of defense. We have to get  
14 the water out and we are doing that in non-damaging flows  
15 so that the reservoirs can be there to hold the water when  
16 the next rains come.

17 So the second phase is to get the water out of  
18 the reservoirs, recover that flood storage and to make some  
19 initial repairs, make initial repairs on levees that have  
20 been damaged.

21 And we are working hard on that. We've got  
22 27 million dollars under contract at full Federal expense  
23 right now to make those repairs.

24 So that's a total of 41 million dollars just  
25 through the Corps of Engineers that's come into the State

1 problems and the solutions and those solutions will not  
2 necessarily all be structural solutions but flooding  
3 problem solutions, we have to go out and want to go out  
4 into the small communities. There's many small communities  
5 out there that with a few enhancements, flood control  
6 enhancements, can improve their protection dramatically,  
7 and we want to go out and hit those small communities very  
8 quickly.

9 We did this in Arizona after the '93 flood in  
10 Arizona -- '91 flood, excuse me -- and that was very  
11 effective.

12 And we found that during the flood there was a  
13 problem with -- we certainly don't know what rain is going  
14 to hit the ground. Once it hits the ground maybe you have  
15 a better handle on what's going to happen, but we've got a  
16 lot of models, model for this reservoir, model for that  
17 reservoir, model for this stream but they are not  
18 integrated and we need an integrated model and we see that  
19 as a long-term step, also.

20 So what are our preliminary conclusions from  
21 this?

22 They are general, but it's clear that there is  
23 many inadequacies in the current flood control system,  
24 especially in the San Joaquin Valley.

25 There is a clear need for additional storage.

1 of California to help the citizens in this disaster.

2 So that's where we are now.

3 Phase III, the final restoration so that come  
4 the next flood season next October that we are ready.

5 We are not going to be ready in a couple of  
6 months but we have to be ready for the next flood season.

7 Who knows what it will bring. Hundred year storms seem to  
8 be occurring very frequently.

9 That final restoration is going to be a big  
10 task and as we look at that final restoration we'll be  
11 looking at such features as nonstructural features, but we  
12 don't have a long time to deliberate on that.

13 And so our primary focus is going to be  
14 repairing the levees, making final repairs to the levees.

15 We're making initial repairs now, making final  
16 repairs and that's going to take a supplemental  
17 appropriation out of the Congress and the magnitude of that  
18 is still being developed but we are talking hundreds of  
19 millions, not tens of millions to make those final  
20 restorations.

21 Okay. Long-term, looking at the long-term.  
22 Mr. Kennedy mentioned the need for a system wide  
23 assessment.

24 It's absolutely clear that we have to do and do  
25 quickly a comprehensive survey to identify the flooding

1 When vast quantities of water arrive, they have to be held  
2 and channeled and then released out into the ocean.

3 Now, that additional storage can be onstream  
4 storage, it can be offstream storage, it can be bypasses,  
5 it can be floodways or other ways of absorbing that blow of  
6 water and then metering it out into the ocean in a  
7 nondamaging way.

8 And then, finally, the final conclusion was  
9 that we'll always have difficulty in predicting storms but  
10 we need to have better predictability when the waters are  
11 on the ground and that's the need for the integrated model.

12 Mr. Chairman, that concludes my remarks.

13 CHAIRMAN MADIGAN: Thank you very much,  
14 Colonel.

15 Let me ask Mr. Patterson if you have any  
16 comments and then we'll open it to questions for the  
17 Colonel or the Director.

18 MR. PATTERSON: Thank you, Mike. I would  
19 only add a couple of points from the Bureau of Reclamation  
20 standpoint, sort of emphasize Dave Kennedy's point about  
21 the size of this storm.

22 I think the December January precipitation at  
23 Blue River Canyon, which is above Sacramento here and above  
24 our Folsom Reservoir was 77 inches, and that two month  
25 period it was, I believe, seven inches higher than 1955 and

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1 it was the precip record.

2 Folsom was one of those facilities that was  
3 strained mightily in the 1986 floods and we managed to come  
4 through this in about as good as shape as we could have  
5 hoped.

6 We did get up to the design levee releases of  
7 115,000 cfs for about a 24 hour period.

8 We had 252,000 cfs coming in at the peak, which  
9 was 50 or 60 more than 1986.

10 So the size of this storm was extremely large.

11 One other thing that I think the agencies that  
12 tried to manage these floods have done since 1986 that  
13 seemed to, I think, had some pay off was the joint  
14 operation center that we have put together.

15 And several of the agencies previously have  
16 been co-located in downtown Sacramento in the resources  
17 building.

18 About a year or so ago Dave Kennedy's operators  
19 and the Bureau of Reclamation operators, the National  
20 Weather Service, the Flood Forecast Center, all located out  
21 together out about Watt and El Camino and that's where the  
22 24 hour flood center is established for something like this  
23 and it's really a nerve center of communication for getting  
24 information out and being able to have weather forecasts  
25 quickly turned into inflow projections, into forecast of

1 participation from our Federal counterparts, and we have  
2 formed, also, local citizen action advisory teams, the  
3 first of which will formally meet next Monday in Yuba  
4 City -- or is it Marysville -- it's Yuba -- and that's a  
5 meeting open to the public and we can provide information  
6 on that.

7 There will be additional meetings in the  
8 Modesto area, Manteca area in the coming weeks as well, to  
9 get local input.

10 And particularly relevant to this group is one  
11 of the tenets of the executive order, as Dave mentioned is  
12 to advise the Governor on long-term needs and opportunities  
13 but a phrase was added by the Governor, to make it  
14 consistent with CalFed because we wanted to ensure that  
15 actions weren't taken looking at the long-term that  
16 ultimately then CalFed was going to determine through this  
17 process. It needed to be done in a different way so as  
18 much as possible we want the long-term look to be  
19 consistent with the kind of thinking that's going on in  
20 CalFed.

21 MS. MCPEAK: Terrific.

22 All right. We'll open up for questions,  
23 particularly to Director Kennedy and to Colonel Peixotto.

24 Yes, Mary.

25 MS. SELKIRK: I'm Mary Selkirk with East

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1 reservoir operations and downstream flood stage  
2 projections.

3 And it was quite a sight to be there. We all  
4 had people on duty 24 hours a day from about the day after  
5 Christmas for about ten days, but it's progress in the  
6 right direction and I think it actually helped a lot, at  
7 least from our standpoint and we are primarily concerned  
8 with the reservoir operations of the CVP.

9 I guess that's all I'd add.

10 MS. MCPEAK: Thank you, Roger.

11 MR. MANTELL: I was just going to add a  
12 couple things, particularly to what Director Kennedy said.  
13 Our Department of Fish and Game established an incident  
14 command center as well to be able to respond rapidly to the  
15 needs for permits and repair authorizations.

16 And my understanding is the Fish and Wildlife  
17 Service worked very closely with the Corps to expedite  
18 needed repairs in terms of the potential impacts on Fish  
19 and Wildlife resources.

20 And just to amplify also on the Governor's  
21 executive order in this Flood Emergency Action Team, it's  
22 an offshoot of the Water Policy Council, it's chaired by  
23 Doug Wheeler, the secretary for resources.

24 As Dave mentioned, all of the key State  
25 officials are represented on it. We've had great

1 Bay Mud and I suppose it's a question for both of you but  
2 maybe first to Director Kennedy.

3 I was happy to know that this -- the Flood  
4 Emergency Action Team is going to be looking at long-term  
5 solutions because I think there obviously are some  
6 potential great overlaps with the work in CalFed in terms  
7 of habitat restoration.

8 What I'd like to hear a little bit more about  
9 is whether there is a consideration of maybe changing our  
10 language from flood control to flood management given that  
11 we clearly live in a flood prone State, the Sacramento and  
12 the San Joaquin Valleys are both flood plain valleys have  
13 some significant width.

14 So I wonder if you could comment on in the  
15 long-term thinking what kinds of measures you guys are  
16 considering.

17 You mentioned ponding, additional bypasses,  
18 flood byways, that kind of thing.

19 DIRECTOR DAVID KENNEDY: I think you'll be  
20 happy to know we changed the division in our department  
21 some years ago from flood control to flood management.

22 I think most people involved in flood  
23 management look at it that way, that we are going to get  
24 these high flows and we have to figure out ways to manage  
25 them and there is not just one way to do it.

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1 Historically it was a combination of reservoirs  
2 and levees, plus in the Sacramento Valley and in the  
3 southern San Joaquin Valley bypasses.

4 All the conversations that I've been in this  
5 month have been people observing that we have to look at  
6 this in a broader way involving land use and bypasses,  
7 ponding easements.

8 So I think that basically the people that are  
9 going to be going forward with these recommendations are  
10 thinking in pretty broad terms that we need to re-think or  
11 enlarge our thinking about the whole approach.

12 MS. McPEAK: Colonel.

13 COLONEL PEIXOTTO: I think you heard the  
14 same kind of language in my remarks, as we look at the  
15 long-term.

16 That's clearly on the Agenda.

17 We've changed our name to flood damage  
18 reduction. So there has been some name changes but -- you  
19 know, a name is just a name, and the philosophy of looking  
20 at all avenues, and you heard both Mr. Kennedy and I talk  
21 about bypasses and floodways and things like that, and I  
22 assure you that as the long-term planning proceeds that  
23 those are going to get full consideration.

24 MS. SELKIRK: I did have one specific  
25 question I wanted to ask about that because you mentioned

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1 that there are considerable funds that are going to be  
2 spent to do major levee repairs over the next several  
3 months.

4 Is there thinking going on, I imagine there is,  
5 but about what levees will take priority?

6 Maybe there's some that should be not repaired  
7 at this point until, you know, April or June or until  
8 spring flood?

9 I mean, what's the thinking about how you make  
10 those kinds of decisions?

11 COLONEL PEIXOTTO: Well, certainly,  
12 there's some that can't be repaired until then by simply  
13 the physics of access.

14 As far as leaving some unrepaired that's not a  
15 decision that has been made.

16 As we do our analysis, in order for us to get  
17 in to repair a levee there has to be more benefits for  
18 repairing it than the costs of doing the repair. So the  
19 benefit cost analysis that will go on before the levee  
20 breaks and there may be conceivably some are that are  
21 decided not to be repaired because the benefits don't  
22 exceed the costs.

23 MS. McPEAK: I've got questions from Alex  
24 and then Tom and then Tom and then Stuart and then Howard.  
25 Alex.

1 MR. HILDEBRAND: Mine is more of a  
2 comment than a question but it relates to Mary's thing.

3 My experience in the past month with floods was  
4 a lot less extensive than Dave's and the Colonel's but it  
5 was a good deal more intimate, I can assure you.

6 I'm also President of the San Joaquin River  
7 Flood Control Association, and after the experiences we had  
8 in '95 we had a lot of discussions with the Corps and the  
9 DWR and the other entities handling flood control in the  
10 San Joaquin River system and I must agree that this time  
11 they did it right.

12 We had a flood approaching biblical  
13 proportions, although it could have been worse yet, but  
14 they did operate the dams very well, good coordination,  
15 good communication with the flow forecasters and so forth,  
16 and also very good cooperation, I would agree, in  
17 flood -- both the flood fighting and now in the flood  
18 repair, although the latter is a little bit inhibited by  
19 the paucity of experienced contractors to do this kind of  
20 work.

21 But getting down to the solutions I don't doubt  
22 that there are some opportunities on the San Joaquin for  
23 bypasses, although I don't think the terrain lends itself  
24 as well to that as it did on the Sacramento.

25 But there are at least three other approaches

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1 on the San Joaquin that have been studied and discussed and  
2 they just never got anybody's attention until we have a  
3 disaster to bring them to the floor.

4 One is that the -- what's happened -- well,  
5 historically before we had levees and dams what happened in  
6 the river system was that it -- when the river rose to high  
7 stages, it overflowed the grasslands and wetlands and  
8 absorbed those peak flows and then flowed back into the  
9 river later on.

10 Now we've built all these levees and that  
11 doesn't happen anymore, and the San Joaquin River  
12 management plan, which was developed here and -- which an  
13 item in it in the February 1995 publication proposed that  
14 we restore this overflow in a controlled manner so that  
15 instead of relieving these peak flows by breaking levees  
16 all over the place we have controlled overflow again as we  
17 did historically.

18 But that never got anywhere because the  
19 institutional problems.

20 The Corps made a very good reconnaissance  
21 study, but, you know, each agency has a single purpose sort  
22 of agency and we don't seem to be able to get things done  
23 that involve a multipurpose approach and a lead Agency that  
24 can handle that properly. So that's one thing.

25 Another thing is that there is no channel

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1 maintenance in the San Joaquin River system downstream of  
2 the Merced River as there is on the Sacramento.

3 And what's happened is that over the last few  
4 decades the bottom of the river has been silted up to  
5 typically eight feet higher elevation than it was, and this  
6 reduces the carrying capacity of the channel proper, causes  
7 the water to rise out of the levee system -- out of the  
8 channel up against the levees sooner, starts soaking them  
9 up sooner. Furthermore, as has been mentioned, the levees  
10 in the San Joaquin River system from Merced down for the  
11 most part do not overtop.

12 The problem is this business that they are not  
13 built with the adequate cross-section to withstand the  
14 hydraulic pressure on one side with dry land on the other  
15 side. They just aren't adequate width.

16 Now, if you dredge this channel as we have been  
17 proposing for years and use that material to beef up the  
18 cross-section of the levees, then you won't have all of  
19 these levee failures.

20 The levee failures I'm familiar with all  
21 occurred because of the lack of levee cross-section.

22 Then, last but not least, the one dam on that  
23 river system is very small compared to its watershed as  
24 compared to the other tributaries is the Friant Dam.

25 The Bureau has established that it's physically

1 Federal Flood Control Project, and I think as we start into  
2 that I think all of this will now have a very real world  
3 meaning to it.

4 COLONEL PEIXOTTO: I believe I heard a  
5 compliment in there and I believe we got that down on the  
6 record. I appreciate that.

7 The public energy arises when you have an  
8 emergency such as this. The half-life of public energy is  
9 rather short and it's -- from the Corps' perspective it's  
10 vital that we start this planning, this long range planning  
11 and not have it be long range but we start it quickly and  
12 we are seeking -- the Corps is requesting some money in a  
13 supplementation appropriation if it comes to pass to allow  
14 us to initiate the planning -- the system wide planning  
15 very, very quickly and reach some deliverables very, very  
16 quickly and the timelines will be very compatible with the  
17 time lines that we saw up here for the CalFed.

18 And the issues that Mr. Hildebrand has raised  
19 will clearly be part of those.

20 MS. McPEAK: Tom Graff.

21 MR. GRAFF: Thank you.

22 Looking primarily at the longer term problems  
23 and opportunities that have been raised by the tragic  
24 circumstances that you've have already discussed some  
25 issues have arisen prior to a letter that I sent to Senator

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1 possible to more than double the capacity of that reservoir  
2 and some of us made a yield analysis that showed the yield  
3 and cost ratio similar to other opportunities whether  
4 you're talking Arvin or Los Banos or Grande or something  
5 else and there is far more benefit available from that  
6 increased water supply. You not only get the flood  
7 protection but it can do a great deal for the environmental  
8 flows, fish flows, water quality and water supply  
9 downstream.

10 That, again, was endorsed by the San Joaquin  
11 River management plan but nothing has happened as yet.

12 So we hope those things will all get on a radar  
13 screen now and get a little more attention.

14 MS. McPEAK: So the question is what do  
15 you think about that? Dave or Colonel Peixotto, do you  
16 have any comment?

17 DIRECTOR DAVID KENNEDY: Well, I think  
18 those are all things that now people are going to take from  
19 the abstract. You know, the effort that Alex was talking  
20 about, our department's been very involved in it, the San  
21 Joaquin River studies, but now we've had a demonstration  
22 really of why all of these things need to be taken very  
23 seriously.

24 So, hopefully, in the re-evaluation of the San  
25 Joaquin River Flood Control Project, which is an authorized

1 Feinstein on the 15th of January that's in the packet  
2 (indicating) and another document I'm going to distribute  
3 in a minute where some have made a big point of the  
4 endangered species act as an alleged problem and sort of a  
5 major issue in relation to the flooding that occurred  
6 perhaps and the possibility of repairing levees and the  
7 like to make sure that future floods don't occur.

8 The point -- probably the major point of my  
9 letter to Senator Feinstein was to say that if we are going  
10 to look for causes and for solutions, we should look a  
11 whole lot more broadly than the Endangered Species Act as a  
12 problem.

13 Nevertheless, apparently Congressman Herder and  
14 Congressman Doolittle are seeking a hearing in Washington  
15 before the House Infrastructure Committee, apparently  
16 primarily oriented to the endangered species act and its  
17 impacts on the California situation.

18 Our view in the letter to Senator Feinstein  
19 since promoted elsewhere is that there really ought to be a  
20 broad scale independent inquiry independent of Federal,  
21 State and local governments, along the lines of the  
22 Galloway Commission that followed the Mississippi River  
23 flood of 1993, that we really missed an opportunity in  
24 California after the '86 flood to have such an inquiry.

25 An inquiry didn't, in fact, take place until

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1 after Auburn dam was defeated on the floor of the House of  
2 Representatives in 1992 when a National Academy of  
3 Engineering study was done but it was limited to the  
4 American River only. The American River as it turned out  
5 was one of the places where the operations were most easily  
6 handled the floods that occurred in California this year.

7 So this idea of a broad scale independent  
8 inquiry that really works broadly in the way of both  
9 Director Kennedy and Colonel Peixotto testified is  
10 desirable, is something that we very strongly feel out to  
11 occur.

12 And then to take it just a little bit further  
13 in terms of the substance of what that inquiry ought to  
14 look into, the document that I just circulated and I don't  
15 have enough for everybody in the audience but I do have  
16 some extra ones, is a six page quick overview of the  
17 remarkable overlap between activities that can be  
18 undertaken to improve the flood management system and  
19 activities that would provide ecosystem restoration  
20 benefits.

21 This is something -- a document prepared by Dr.  
22 Philip Williams who has long experience.

23 In fact, he and I back in 1973 worked together  
24 in the lawsuit to prevent the construction of Auburn Dam  
25 and analyze the flood -- he analyzed the flood capabilities

1 anybody's done any analyses yet as to what the interval of  
2 this storm or these storms was.

3 I would speculate that on some of the streams  
4 it was in the neighborhood of a hundred year return  
5 interval.

6 On some it's probably less than that.

7 But when you've got a hundred years of record  
8 and you get the largest storm you've ever seen, you know,  
9 then it puts you into that ballpark. To the best of my  
10 knowledge, this is the first time we've been at design  
11 capacity on the Feather River below the junction with the  
12 Yuba River where we were essentially at design capacity.

13 On the American River this is the third time  
14 we've been at design capacity.

15 In '64 at this time it was 115. In '86 it was  
16 actually above design capacity at 130 for the better part  
17 of a day.

18 So there is some interesting things we are  
19 going to have to sort out on statistics.

20 We haven't calculated yet either the total  
21 outflow to the Bay but I'm sure it was somewhere in the  
22 5,000,000 acre feet range, something like that, four or  
23 5,000,000 acre feet.

24 MR. MADDOCK: So at some point if you had  
25 a 200 year flood then you would exceed design capacities?

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1 of the American River and I put the testimony on.

2 It shows my age.

3 Anyway, I do think that there is this great  
4 opportunity that we need to look broadly at the overlap  
5 and, of course, that's relevant for this Council and for  
6 CalFed between improving flood management and ecosystem  
7 restoration and that we ought to do it in a -- with the  
8 help of a blue ribbon independent commission.

9 MS. MCPEAK: Any comments?

10 Okay. Tom Maddock.

11 MR. MADDOCK: I'm not sure we need a blue  
12 ribbon commission.

13 I'd be interested in Director Kennedy's  
14 comments on that and the Corps of Engineers as to whether  
15 or not these agencies are capable of making the assessment  
16 that needs to be made.

17 But I had two questions here.

18 One is in terms of recurrence interval of this  
19 particular storm. I heard Roger Patterson say that they  
20 had the highest precip on record on the American River and  
21 so was this a hundred years or 150 years or what?

22 And then the second question is what was the  
23 ten day or seven day outflow in acre feet into San  
24 Francisco Bay and into the ocean there, if you know that?

25 DIRECTOR DAVID KENNEDY: I don't think

1 I mean, that's what I was trying to get  
2 at -- if you had a 200 or 300 year flood then you'd exceed  
3 the design capacities of say the Feather River system and  
4 you're gone, anyway.

5 DIRECTOR DAVID KENNEDY: That's probably  
6 true, right.

7 MR. MADDOCK: (Affirmative nod)

8 MS. MCPEAK: Stuart Pyle.

9 MR. PYLE: Yeah.

10 I have one question, and one of them, you  
11 think, is more of a comment.

12 But my question is we haven't heard an awful  
13 lot about the performance of the Deltas and the flood  
14 carrying capacity in the Delta per se, and I just wonder  
15 does that mean that the Delta has been performing well as a  
16 result of the inpour of monies from the SB 34, et cetera,  
17 et cetera?

18 And then I have a comment, also, on the  
19 restoration.

20 DIRECTOR DAVID KENNEDY: I think that  
21 generally speaking the Delta is one of the brighter spots  
22 in this event in that there -- other than the South Delta  
23 where the San Joaquin River overwhelmed several tracts and  
24 islands down there.

25 In the north Delta there are two islands that

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1 went down. Both of them are almost designed to go down  
2 with really high water so it wasn't that big of surprise.  
3 That's McCormick Tract and (inaudible) Island both went  
4 down.

5 Other than that none of the major islands have  
6 flooded.

7 We've had some major flood fights, though, as  
8 recently as I think it was yesterday morning we had some  
9 trouble on Sherman that was troublesome.

10 I'm going to pick a number but probably ten  
11 major incidents within the Delta where we thought that we  
12 might lose islands during this month but have been able to  
13 flood fight each one of those successfully.

14 The portions of those islands where we have  
15 done SB 34 work over the last eight years, to the best of  
16 our knowledge, all have those of performed well and I think  
17 it's illustrated that that money has been well spent and  
18 where we have been able to get in and do work it can be  
19 successful and can be very helpful.

20 I think we put about -- the State has put about  
21 75 million dollars into the SB34 program in the Delta over  
22 the last eight years.

23 There is another, oh, 30 or 40 million dollars  
24 in the pipeline that will be used for SB34 over the next  
25 several years.

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1 COLONEL PEIXOTTO: well, the Delta levees  
2 did in fact perform well. It was nip and tuck in many  
3 cases, as Mr. Kennedy said.

4 We, the Corps, were involved in ten flood  
5 fights and they are either complete or some are still  
6 underway, and there are about 3.6 million dollars of flood  
7 fight efforts from the Corps on the Delta levees alone.

8 MR. PYLE: Sunne, if I may just comment on  
9 this ecosystem restoration.

10 MS. McPEAK: Yes.

11 MR. PYLE: It seems to me like there is a  
12 significance opportunity for the collection of data on the  
13 performance of overflow areas in this type of event.

14 I hope that the agencies that have that  
15 responsibility are doing it and I think I also picked up on  
16 David's comment on the choking of the flood passage into  
17 the major channels from the San Joaquin into the Delta  
18 means that maybe there's another opportunity for some of  
19 Dick Daniels' desires for setback levees and some of those  
20 programs that get going and then I'd begin to worry about  
21 where we pour tens of thousands, maybe hundreds of  
22 thousands of dollars into gravel restoration, where is our  
23 gravel today, you know, all of those questions.

24 But it seems to me that there is going to be a  
25 big job for the environmental restoration of this whole

1 process.

2 MS. McPEAK: Let me give you the order  
3 that we have, Howard, then Robert, Annie, and Roberta.  
4 Howard.

5 MR. FRICK: Just a comment backing up, I  
6 suppose.

7 I was really impressed with this cooperation  
8 between Bureau and the Corps and DWR.

9 In illustration, you know, Kern County escaped  
10 this flood almost entirely. There was a lot of water in  
11 the Kern River and the Corps allowed the Isabella Dam to  
12 cut off releases encroached on flood control space in  
13 Isabella to -- probably approaching 200,000 acre feet now  
14 and that allows the San Joaquin and other streams north of  
15 Kern County to put water into the Friant Kern Canal, down  
16 into the Kern River and into the aqueduct, down to LA and  
17 that wasn't a big deal but it shows you the kind of  
18 cooperation. It helped some, significant, and that  
19 wouldn't have occurred a few years ago, I think.

20 CHAIRMAN MADIGAN: Robert.

21 MR. MEACHER: My question is one of a  
22 follow-up back when you were answering Mary's question on  
23 the levees and the fact to do a cost benefit analysis there  
24 may be some levees that won't be repaired. In the process  
25 is it the Army Corps or FEMA that's going to make that

1 determination and if so are we looking at a lot of  
2 relocation or buy outs of residences and farms if these  
3 levees aren't repaired, similar to what happened in  
4 Mississippi?

5 I believe there was 10,000 or so residences  
6 that were either relocated or bought out.

7 COLONEL PEIXOTTO: I'm unable to answer  
8 the second part of your question.

9 The first part, the economic analysis, that  
10 determination would be made by the Corps.

11 Under Federal law we operate within the  
12 benefits of investing that federal money has to exceed the  
13 cost of that federal money, or the value of that federal  
14 money. So the benefits have to exceed the costs.

15 MR. MEACHER: So when it's determined that  
16 the benefits don't --

17 COLONEL PEIXOTTO: Do not.

18 MR. MEACHER: -- do not or that they don't  
19 qualify, does that immediately kick in FEMA?

20 COLONEL PEIXOTTO: I can't answer that.

21 MR. MEACHER: You don't know that?

22 COLONEL PEIXOTTO: I don't know.

23 DIRECTOR DAVID KENNEDY: I might just  
24 comment on that for a moment, Colonel.

25 Most of the levees that had failures here are

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1 so-called project levees. They are part of either the  
2 San Joaquin or the Sacramento River authorized flood  
3 control projects and virtually all of those breaks are  
4 being fixed right now.

5 The question of something not being fixed I  
6 think largely goes to so-called private levees.

7 There's some on the Cosumnes. There is a few  
8 other miscellaneous ones around and those present a whole  
9 different problem that we are trying to work through with  
10 local government and to some extent the Corps.

11 But I don't want to leave the impression that  
12 we are all sitting here deciding we are going to leave some  
13 of the project unrepaired because I think to the best of my  
14 knowledge both of these authorized projects are going to be  
15 fully restored.

16 MR. MEACHER: And I should have prefaced  
17 that.

18 I was directing it to the nonproject levees.

19 DIRECTOR DAVID KENNEDY: And there just  
20 aren't that many nonproject levees that it's possible to  
21 generalize.

22 The one that we are spending the most time on  
23 right now is the Cosumnes River right here in Sacramento  
24 County and there's some really tough questions that have to  
25 be dealt with their but there's a few other miscellaneous

1 with allowing vegetative toes instead of riprap, thing like  
2 that.

3 What type of work group or consultation  
4 are -- is going on, I guess, through the Governor's work  
5 group here or how, you know, you're rebuilding some of  
6 these levees now. I mean, has any consideration been given  
7 to looking at how we can promote ecosystem restoration at  
8 the same time as we are dealing with short-term needs for  
9 flood management?

10 COLONEL PEIXOTTO: In these repairs we are  
11 making now, no.

12 We are trying to get some level of flood  
13 protection back, building in the footprint of the levees  
14 that were damaged to protect the citizens that are behind  
15 that. And that's the primary focus.

16 When we do the final repairs, then that's done  
17 in a more deliberative but not extensively deliberative  
18 manner in which ecosystem values are an important factor in  
19 the final decisions on how those are put back together, how  
20 the final flood protection is made.

21 MS. NOTTOFF: Michael, so is CalFed  
22 involved?

23 In the Governor's Council they are talking to  
24 the Corps about how, in fact, these repairs go forward and  
25 what consideration --

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1 non-Federal levees around but it's not a great big issue.

2 MS. MCPEAK: Ann --

3 COLONEL PEIXOTTO: If I could add a quick  
4 response to that.

5 On the -- I believe it was on the 10th of  
6 January the Corps put out notices from our Sacramento  
7 District and our San Francisco District asking all of those  
8 that have had damaged flood control structures to contact  
9 us to get into the system for repairs.

10 So there is those public notices out, 60 day  
11 public notices through the 10th of March, I believe it is.

12 Please let us know if you have damaged flood  
13 control structures so that we can include those in our  
14 restoration.

15 MS. MCPEAK: Ann.

16 MS. NOTTOFF: Ann Notthoff with the  
17 Natural Resources Defense Council.

18 I want to get back to this issue of the  
19 opportunity to both improve flood management capabilities  
20 and to achieve some of the ecosystem restoration goals that  
21 is really the purpose of this body.

22 And it seems to me that there is both short and  
23 long-term opportunities to do that.

24 So that when you are looking at levee repair,  
25 for example, that you think about reconstruction of levees

1 MR. MANTELL: Just to amplify on what the  
2 Colonel said, the task now is just to provide immediate  
3 protection while we are still in the midst of the winter,  
4 but the CalFed -- Lester and his staff have been involved  
5 and are continuing to be involved in the discussions and  
6 will be involved in the hundred and twenty day report that  
7 Dave mentioned in terms of recommendations to the  
8 government.

9 COLONEL PEIXOTTO: And the Fish and  
10 Wildlife Service is working very, very closely with us.

11 MS. MCPEAK: Thank you.

12 We are going to get Roberta, Bob, and then  
13 we're going to get Lester on what is going on and ask  
14 Lester to comment on some of the review from the CalFed  
15 process and how that relates to what might be done in the  
16 immediate response to the floods.

17 Roberta.

18 MS. BORGONOVO: I just wanted to follow  
19 back up on the point that Tom had first raised.

20 In this group we have presentations as we are  
21 looking at the ecosystem restoration from projects that  
22 were done in Florida where there was really a revamping of  
23 the flood control and they went back to flood management  
24 and they got ecosystem restoration and even in the  
25 Mississippi River Valley and even in the coastal wetlands.



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1 So I just wanted to make sure that in the  
2 long-term we would be incorporating those lessons that the  
3 Corps has learned in other parts.

4 So that was my first question.

5 My second question is when the FEMA money comes  
6 in, is it restricted? Is there any opportunity to do some  
7 of this ecosystem restoration if there are willing  
8 participants in it in the near term, in the short-term?

9 COLONEL PEIXOTTO: I don't want to speak a  
10 lot for FEMA. Their regulations are pretty precise, but my  
11 understanding is that their role is to help you recover  
12 from the disaster.

13 On your first point, wetlands restoration, the  
14 Corps of Engineers is doing the nation's largest in the  
15 Everglades that you mentioned. The Corps of Engineers is  
16 doing the nation's second largest right outside of town  
17 here on the Yolo Bypass. That is the nation's second  
18 largest ecosystem restoration.

19 I am a trained environmental engineer. The  
20 Corps of Engineers has as a mission, a mission, for us in  
21 the military a mission is important -- we have as a mission  
22 alongside flood management, alongside navigation, alongside  
23 construction of Army and Air Force bases, we have an  
24 environmental mission and we have authorities and  
25 legislation that allows us to pursue environmental projects

1 Folsom is they can't get water out of there fast enough  
2 even as they see it rising. It's not up to the spillway  
3 yet and so they can't get it out and, of course, that's the  
4 reason that there has been a lot of consideration given to  
5 deepening the spillways at Folsom to get the water out  
6 sooner in the storm.

7 And if that turns out to be economical and  
8 physically practical to do, I think that would make a lot  
9 of sense.

10 But one of the other things that I think is  
11 certainly true I don't know if anybody is going to  
12 have -- ever have much confidence to storms that are more  
13 than four or five days out there.

14 You know, the storm at the beginning of this  
15 month, I think it's really almost extraordinary how well  
16 that was forecast.

17 If you look at what Mr. Mork and the Federal  
18 people gave us in late December and then compare with what  
19 actually happened, it's astonishing how close they got to  
20 what happened.

21 The one that was supposed to come last weekend,  
22 it actually got pretty close but it was not as big as they  
23 forecast right up until the last day.

24 And so you are always faced with the dilemma of  
25 dumping a lot of water and then the storm doesn't show up.

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1 and we have oodles of environmental -- environmentally  
2 educated people on our staff.

3 And so it's not an, oh, by the way for us. It  
4 is a central mission for us, environmental restoration and  
5 the environmental security of the nation.

6 MS. MCPEAK: Bob Raab.

7 MR. RAAB: This has to do with the science  
8 of forecasting.

9 How much difference would it have made if  
10 Mr. Mork and the other forecasters had been able to predict  
11 the pineapple express and the magnitude of the event, say,  
12 three or four days earlier than they were able to do?

13 DIRECTOR DAVID KENNEDY: Well, I'm going  
14 to have to speculate just a little bit about that because  
15 we don't have an analysis of that.

16 But the reservoirs for the most part were  
17 pulled down before all of this started. They were down to  
18 their flood control reservations.

19 We had, I think, Mr. Mork gave us about four  
20 days of advance warning that the big one is coming, which,  
21 frankly, I think is a remarkable amount of time upfront.

22 But as a practical matter you can't get the  
23 water out of the reservoirs at that level fast enough to  
24 make all that much difference.

25 One of the anomalies about Roger had operating

1 It's worth remembering that in 1986, which was  
2 the previous very large storm, at the end of the season in  
3 '86 we did not fill Orville Reservoir because the water  
4 that had come through we had to release in both February  
5 and March. There wasn't enough snowpack up there to fill  
6 and Oroville did not fill for a period of almost ten years  
7 in spite of these huge flows of '86.

8 MS. MCPEAK: Let me -- yes, Roger.

9 MR. PATTERSON: If I could add just a  
10 little bit on that.

11 The forecasting, you know, there was --  
12 following the initial forecast of the big storms coming in  
13 they weren't developing very quickly. In fact, there was a  
14 lot of conjecture about, ah, these guys are missing the  
15 mark because nothing's developing because it took about two  
16 days longer.

17 I don't recall which basin it was but there was  
18 like a six or seven day total forecast for one of the  
19 basins of about 29 and a half inches and after all was said  
20 and done it turned out that particular basin received 29.3  
21 inches and I don't know whether that was just luck but I  
22 don't think so.

23 The other thing I would add, I would agree with  
24 what Dave said on Folsom.

25 We had maximum capacity going out of Folsom for

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1 about four days with the anticipation of what was coming  
2 and I think the fact that we could not get any more water  
3 out. We were at 34,000 CFS means we need to really look at  
4 some additional lower level outlook capability because we  
5 sat there and waited until it reached the spillway level.  
6 Before then we could start increasing the releases and for  
7 this storm that worked out. Everything was fine. But  
8 there were some -- I was glad to hear Tom say that it was  
9 easy on the American because we had sometimes it didn't  
10 seem all that easy.

11 MS. MCPK: To you, Dave, and Colonel  
12 Peixotto and Roger and Michael, I think we all want to  
13 commend you for the tremendous amount of cooperation  
14 between the State and Federal agencies.

15 That's, I think, extraordinary and of course,  
16 you've had to do a lot of work to coordinate those efforts.

17 What the questions I hear around the table are  
18 pointing to are trying to recognize the immediate challenge  
19 of getting through the rest of this season, protecting  
20 property and lives, lives and property in that order, and  
21 at the same time trying to reach that same extraordinary  
22 level of cooperation to achieve as much of the long-term  
23 goals of the CalFed process without compromising your  
24 immediate mission.

25 And so I think that's the direction that we

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1 were trying to go in and really build upon this experience.

2 It's unusual that we'd be in the middle of such  
3 a major undertaking around an ecosystem and then have such  
4 dramatic real data to relate to and part of what Mike and I  
5 have asked Lester to do and would also invite you to  
6 comment is given what we are looking at as a range of  
7 components in our alternatives, the restoration of habitat,  
8 the way we might approach levees with more sensitivity to  
9 habitat, with storage, with the facilities in the Delta.

10 Is there -- do we have the ability to look at  
11 the experience we've just gone through and evaluate the  
12 benefits that the program we have under consideration would  
13 have to the flood management?

14 And, Lester, you may want to kick it off but  
15 I'd also pose that to you, Dave, and to Colonel Peixotto.  
16 Have you had the opportunity to look at the program being  
17 evaluated here, considered here, at CalFed against the  
18 experience of the floods and to know what would have made a  
19 difference, if at all, to what you have just experienced?

20 DIRECTOR DAVID KENNEDY: Well, of course,  
21 we're pretty familiar with your missions here and I think  
22 it's -- there is a surprisingly good fit between what  
23 you're trying to do and the problem that we've had to  
24 address this last month.

25 So it's quite a convergence of two important

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1 issues. I think the timing in a way couldn't have been  
2 better.

3 Of course, we work very closely with Lester and  
4 his staff and I think this is a golden opportunity to put  
5 some things together and come out with a broad support for  
6 actions that both address specifically what you're working  
7 on and take care of some of these flood management issues  
8 at the same time.

9 MS. MCPK: Thank you, Dave.  
10 Colonel.

11 COLONEL PEIXOTTO: I see a wonderful blend  
12 as we come into the future and do this assessment of flood  
13 control -- flood management -- in the basin, where the  
14 weaknesses are, what needs to be done to counter those  
15 weaknesses, but to do it in a way that is supportive of the  
16 CalFed objectives.

17 I see a very close relationship as we go into  
18 this study process between CalFed and the study of it.

19 MS. MCPK: Lester.

20 EXECUTIVE DIRECTOR SNOW: What I want to  
21 do is -- we are obviously still at a conceptual --

22 MS. MCPK: Thank you, Dave, and,  
23 Colonel, thank you very much. (Applause).

24 EXECUTIVE DIRECTOR SNOW: That's probably  
25 a good deal when you go to a meeting and talk about

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1 flooding and they applaud you guys and don't bring out the  
2 rope.

3 We are obviously still at a conceptual level on  
4 how we would integrate this, but I want to use some  
5 examples to kind of illustrate the concepts.

6 And Sunne has already summarized the  
7 opportunity in the sense that there is two ways to look at  
8 this.

9 One is that the flood event has provided us  
10 another data point and so it's kind of a new experience and  
11 let's look at the program to see what this data point tells  
12 us and then almost the flip side of that or a different way  
13 is taking a look at our program, at least the concepts that  
14 we have out there now, and seeing if there is a way that we  
15 can modify, accelerate, link in a different fashion what we  
16 have talked about to provide some flood management  
17 benefits.

18 And mixed in the discussion, I think all of the  
19 issues have come up.

20 And let me hit them real quickly and then I  
21 want to show you some examples.

22 The issue of offstream storage, we've talked a  
23 lot about offstream storage north of the Delta, south of  
24 the Delta and in-Delta and we've talked about it mostly  
25 from a fish flow and water supply standpoint but I think we

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1 need to look at it from a flood storage or flood  
2 reservation space standpoint.

3 The issue of flood flow areas, and in the flood  
4 business those end up being called flood easements.

5 But they provide a lot of different kinds of  
6 benefits including habitat and the concept of ag land  
7 preserved. Also the issue of setback levees, we've talked  
8 a lot about setback levees, what can be done with them in  
9 terms of providing greater levee system stability, in terms  
10 of that component. At the same time providing habitat  
11 opportunities.

12 And then a different issue of fortifying levees  
13 so that the levees can have habitat on them without people  
14 being concerned that habitat on levees means unstable  
15 levees and that's an issue that came up clearly in this  
16 flood event.

17 I want to start with a real kind of broad  
18 overview here and then I'm going to end up in more detail  
19 focusing on offstream storage and how it could work in the  
20 Sacramento system and then also the North Delta flooding  
21 problem.

22 But to kind of continue on with the discussion  
23 that's already come up here, the issue, we have, you know,  
24 identified all offstream reservoir sites that have ever  
25 been contemplated in the State of California and that's

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1 part of our process, to move forward and evaluate those and  
2 so we need to look at what role these offstream storage or  
3 in this specific case raising the existing reservoirs can  
4 play not only in the fisheries' water supply issues that  
5 we've identified but also in this case in the flood control  
6 issues.

7 The issue that Alex and others brought up of  
8 looking at the bypasses and overflow areas as a means of  
9 providing flood protection now where we have been looking  
10 at those issues primarily from a habitat standpoint. Same  
11 with the setback levees, we've talked about meander belts  
12 on the Sacramento system and we now have another data  
13 point, another issue with which to kind of refine our  
14 discussion of those.

15 Just to kind of remind you of the last meeting  
16 you may recall we started talking about how we are  
17 integrating these components and we kind of went through  
18 this exercise and divided the system up into three areas.

19 We talked about north of Delta and how there  
20 could be a, you know, offstream storage located somewhere  
21 up here to provide certain benefits and how there would be  
22 potentially meander belts and habitat integration with the  
23 stream course and we had that discussion at our November  
24 meeting.

25 When we identified the offstream storage issues

1 in terms of north of Delta, we identified a lot of  
2 potential linkages and we had the issue of kind of  
3 re-operation of existing reservoirs for fishery and water  
4 supply benefits and so the issue that clearly has come up  
5 now is the re-operation for flood control benefits and so  
6 that's clearly something that we are looking at now that we  
7 had not focused on previously.

8 And I want to use this graphic just to  
9 illustrate, you know, a real specific point but I guess I  
10 need to explain this.

11 This probably doesn't immediately jump out at  
12 you what's on here. But on this side you have the water  
13 that's in storage and you notice the flood reservation  
14 targets at Shasta, and then you have outflow, what's going  
15 on, what's coming out of the reservoir and then you have  
16 inflow, and you can see actually Shasta was being drained  
17 as we went into the flood event and then outflow  
18 significantly increased -- excuse me -- inflow  
19 significantly increased and outflow came up with it and at  
20 the same time outflow is increasing. The flood reservation  
21 capacity is being filled.

22 The concept of offstream storage integrating  
23 into this is that you take a block of this and you actually  
24 can move it out and do it in conjunction with some  
25 offstream site or you move it out prior to the flood

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1 season, some specific quantity of water, 400,000 acre feet,  
2 a half a million, whatever the number is, and then that  
3 allows you to provide additional flood reservation capacity  
4 without losing water supply or fish flow water or  
5 temperature control water, whatever the issue is, and so  
6 that's something that we are trying to take a look at now.

7 And kind of one more specific example utilizing  
8 the north Delta.

9 I have the Cosumnes and Mokelumne system coming  
10 together. There was a lot of problems in this area and  
11 this ends up also being a historic bottleneck in the  
12 system.

13 There's a lot of flooding problems in the  
14 system, has been for a long time. It has been the topic of  
15 a lot of flood management and flood control issues. This  
16 also in the general areas about needing to create some  
17 habitat, how do we create channels and get more habitat in  
18 the system.

19 I guess there is two different issues. I'll  
20 how you a couple different cross-sections but the concept  
21 that we have on the Cosumnes is this is where you have the  
22 private levees that were referred to earlier.

23 Maybe here are opportunities rather than trying  
24 to take those levees and fortify them to this 100 year  
25 level figure out a way that we can have an overflow area.

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1 Let me talk first about the Delta.

2 What happens is this water comes in from this  
3 system and then has these channels that the water must get  
4 through before it can get to the San Joaquin side and flow  
5 out. These end up being very constricted channels in here.

6 And Alex probably can attest to that.

7 So what you have in that system right now is  
8 fairly confined channels with, in some locations some  
9 habitat benefit on the existing channels but generally in a  
10 constricted area.

11 What we have been talking about and what this  
12 shows us may actually be able to achieve multiple benefits  
13 is significantly changing the channel capacity in that area  
14 so that the flood flows can move through while we are  
15 actually, because of that specific location, getting tidal  
16 wetlands. That's an area in the Delta where you have tidal  
17 influence where the land is at the right level that you can  
18 create tidal wetlands as well as the potential of unmanaged  
19 seasonal wetlands and at the same time being able to  
20 provide flood capacity.

21 Back up on the Cosumnes River itself, the same  
22 kind of concept. Obviously you would do this on a much  
23 larger scale, much wider areas, and you would look at  
24 providing agriculture as well as wildlife habitats or  
25 agricultural easements. We now have an opportunity to look

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1 at this more aggressively where we can been providing not  
2 only habitat benefits that we've been talking about in a  
3 very linked system, potentially providing habitat all the  
4 way down on the east -- is that visible? It's not to  
5 me -- barely -- providing habitat potentially all the way  
6 down this corridor, very extensive habitat, but then also  
7 providing a floodway to deal with this problem as opposed  
8 to dealing with it in some other structural way that might  
9 be proposed.

10 So that kind of represents two examples of a  
11 lot of different issues that are out there that we can  
12 integrate into the program.

13 So I'd be glad to try to respond to any  
14 questions about how we are approaching this or other issues  
15 that may come up. I would mention just one other one that  
16 may not be obvious and we are not sure how much leverage  
17 that we have on it.

18 Actually, there's two different issues I guess  
19 I should mention.

20 One is we need to take a quick look at exotic  
21 species.

22 We have discussed on a number of occasions the  
23 problem with introduced species in the system, water  
24 hyacinths, as an example that we've brought up and Alex has  
25 brought up.

1 There is some speculation that after a flood

2 event you have really reduced the water hyacinths in the  
3 system and, therefore, if you jump on that issue before  
4 they get reestablished you can get better control of  
5 hyacinths, and that's something we need to run to the  
6 ground.

7 The other issue that's a real site specific  
8 issue is as diversion structures or other physical  
9 structures in the system have been damaged perhaps they can  
10 be replaced in a different way to meet some of the other  
11 program objectives.

12 And there are examples of dams and diversion  
13 structures on the tributaries that have been affected by  
14 this and as they are replaced perhaps we have an  
15 opportunity to effect the way that they are put back in  
16 place to meet some of our ecosystem objectives.

17 CHAIRMAN MADIGAN: Okay.

18 Would anybody here like to have a BDAC song?  
19 Sunne.

20 MS. McPEAK: Lester, I actually thought  
21 I'd never live to see this day when there is too much  
22 outflow through the Bay-Delta system but there is now the  
23 reports coming in of wildlife -- not wildlife -- but marine  
24 life. It's actually life that needs an estuarine system  
25 being really negatively impacted and killed by too much

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1 outflow, too much fresh water environment.

2 Are you looking at that?

3 We've long had the discussion around the  
4 Bay-Delta and trying to get more understanding of the  
5 Delta -- excuse me -- the Bay component to the Estuarine  
6 system.

7 Do we have any feedback?

8 Are you getting any information about how much  
9 is too much to the Estuarine environment there and what  
10 that would suggest in terms of planning for the BDAC  
11 proposals here?

12 EXECUTIVE DIRECTOR SNOW: I think in  
13 general and Dick is welcome to comment on this that with  
14 the exception of some real specific exotic species where  
15 the outflow may push them down to a point where we have an  
16 opportunity to control them, with that aside, in general  
17 these kinds of high flows are seen in the long-term to be  
18 beneficial to the ecosystem and it's not a problem that you  
19 want to control these so it doesn't have an ecosystem  
20 impact. It's kind of part of the big picture.

21 Is that fair to say, Dick?

22 Or maybe not.

23 MR. DANIEL: Despite the fact that this  
24 was an extra ordinary event the natural system has got the  
25 resiliency to deal with it.

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1 What I would like to caution is to prevent  
2 these events from happening in the future if we can but  
3 what's going to happen next year?

4 Are we going to have conditions sufficient to  
5 allow those marine species to recolonize the Bay and  
6 recover from this natural disasters and that's basically  
7 what we are trying to look at, to rebuild a full range of  
8 resiliency back into the system.

9 CHAIRMAN MADIGAN: Alex.

10 MR. HILDEBRAND: I'm not sure whether I  
11 understood Steve Yeager's presentation correctly, but it  
12 sounded to me as though the plan is to allow the peak flow  
13 to occur and break all the levees and then start storing  
14 water.

15 That doesn't sound too good to me.

16 Maybe there was some restraint on that that I  
17 didn't detect.

18 EXECUTIVE DIRECTOR SNOW: I think what  
19 Steve was talking about was a more normal hydrograph in the  
20 system, a more normal flow event.

21 Certainly, we are not designing the system to  
22 this event and so I think, you know, in this kind of thing  
23 you want to move water out of the system as quickly as you  
24 can to help the flood issue.

25 CHAIRMAN MADIGAN: Okay.

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1 Marcia.

2 MS. BROCKMAN: Lester, I know that task  
3 force that the Government has set up is supposed to make  
4 long-term recommendations.

5 Are we going to take the lead in responding to  
6 those or who exactly is going to be doing that and how can  
7 we play a part in that?

8 EXECUTIVE DIRECTOR SNOW: I think the  
9 issue of the long-term goes well beyond CalFed. There are  
10 a lot of other issues, but I do think that CalFed needs to  
11 provide information into that process related to some of  
12 these issues where, you know, we have habitat strategies.

13 We also have -- I mean, this is something we  
14 haven't discussed too much, but a lot of this habitat  
15 restoration that we are talking about doing will have  
16 impact on prime agricultural lands.

17 You have an obligation under CEQA to mitigation  
18 your impact on prime agricultural lands and so when we look  
19 at some of these situations we see an opportunity to set up  
20 agricultural preserves in these overflow areas.

21 It's worked well in the Yolo Bypass. It can  
22 work well in some of these other areas. So we have an  
23 opportunity to submit into that process some of these  
24 long-term integration issues along with all of the other  
25 issues that will be brought into that.

1 CHAIRMAN MADIGAN: Tom.

2 MR. GRAFF: Lester, back to your offstream  
3 storage example -- maybe Eric would want to comment on  
4 this, too -- if you could view that as either providing  
5 flood control space, in which space there historically has  
6 been a substantial amount of public nonuser (inaudible)  
7 that goes into providing flood protection or you can view  
8 it as providing a water supply that later gets sold to  
9 somebody and they ought to pay for it.

10 How are we going to make a determination which  
11 of those it is?

12 EXECUTIVE DIRECTOR SNOW: Actually, in  
13 that specific case you can analyze that distinction. I  
14 mean, you can come up with how much of an offstream  
15 reservoir is providing added flood capacity versus how much  
16 additional yield you are getting.

17 I mean, if we, for example, come up with  
18 something and all of a sudden the reservoir is, in fact,  
19 completely reoperated and that becomes the new standard we  
20 can calculate the flood benefits associated with that. And  
21 if that represents half of what we are doing in the  
22 offstream reservoir then it's easy to translate that  
23 perhaps flood control interests should pay half the cost of  
24 that reservoir.

25 And then the reservoir can also provide water

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1 supply benefits.

2 So I think that's one of the areas in the  
3 program that we can do a reasonably good job of analyzing  
4 costs and benefits.

5 CHAIRMAN MADIGAN: Eric.

6 MR. HASSELTINE: well, I think Lester has  
7 replied to the specific question but it brings up the whole  
8 issue of how do you put value on benefits and how do you  
9 identify who the beneficiaries are?

10 And I don't know if this is the time,  
11 Mr. Chairman, but I've been looking for an opportunity to  
12 sort of jump in with some of the goings on of the finance  
13 working group which relate I think to some of the  
14 discussion we are having here and some of the charts that  
15 Steve put up with the programmatic approach, which tends to  
16 a more general rather than specific identification of the  
17 components of the overall solution.

18 And to the extent that we believe that any  
19 component that actually is part of the ultimate solution  
20 has to meet two financial tests, one, as mentioned earlier  
21 by Alex, has to be cost effective, meaning what you gain  
22 from doing it is equal to or greater than the cost.

23 But, secondly, that regardless of that it has  
24 to meet a financial feasibility test, that you have some  
25 way of generating the money to, in fact, implement that

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1 component much less the entire solution.

2 And it would seem to us that before we come out  
3 with a preferred alternative that type of analysis has to  
4 be cranked into this.

5 The trouble that we've been having thus far is  
6 that cost effectiveness is a comparison between costs and  
7 benefits and the total number of benefits from the various  
8 beneficiaries. The data just doesn't exist on that.

9 And we've been forced into, I think, a position  
10 now that really became much clearer to us yesterday at our  
11 finance work group meeting that we are really going to have  
12 to be proceeding with the development of a financial plan  
13 based much more a the qualitative analysis rather than a  
14 quantitative analysis, meaning that we are not going really  
15 be able to compare absolute values of benefits to absolute  
16 cost figures probably for some time.

17 And that initially caused, I think, a fair  
18 amount of consternation within the group because we had  
19 developed what we thought was a process of working through  
20 costs and benefits and then assignments of benefits to  
21 beneficiaries. Therefore, setting up the basis for cost  
22 allocation amongst the various parties and beneficiaries  
23 and then looking to see whether or not those beneficiaries  
24 could really bear those levels of cost in order to come up  
25 with some sort of an overall financing plan.

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1 And I guess the troubling part of this is that  
2 we are being asked to come up with a financial strategy  
3 initially sometime in late spring or summer and then coming  
4 up with a draft financial strategy by fall and it's hard to  
5 really foresee a financial strategy that really makes sense  
6 or is really applicable to a preferred solution when we  
7 don't seem to have the specificity of what is in the  
8 preferred solution.

9 Therefore, we don't have much specificity in  
10 the value of the benefits.

11 And so that's sort of what we are wrestling at  
12 right now and I think we are sort of headed for some sort  
13 of a hybrid initial analysis that probably is going to be  
14 fairly quantitative on costs and is going to be very  
15 qualitative on benefits.

16 And so I think Tom's, you know, reference to  
17 the financial aspect of this is right on target and we just  
18 don't really know yet.

19 I think in this particular case it lends itself  
20 to a much more quantitative analysis, fortunately, but  
21 there are a lot of other parts of the program that don't.

22 CHAIRMAN MADIGAN: Sunne.

23 MS. McPEAK: Lester, on the example that  
24 you put up, in terms of the ability to quantify what is a  
25 flood management versus water supply, would it be possible

1 to also do that analysis against variables in time?

2 In other words, to recognize that in given  
3 periods of time a facility can have more utility for flood  
4 management and those tend to be peak times versus on an  
5 ongoing basis perhaps more utility for water supply?

6 And what would be the implication of doing  
7 that?

8 EXECUTIVE DIRECTOR SNOW: Roger, why don't  
9 you answer that question?

10 MR. PATTERSON: Well, I think that's a  
11 good point because, in fact, that's fairly normal for how  
12 you'd allocate space in some of the reservoirs, in Shasta  
13 that Lester has up there. We will have a maximum flood  
14 reservation that we will be holding at this time of year  
15 and as you get through the flood season that will become  
16 smaller and will convert to storage space so I think that's  
17 legitimate to look at.

18 On the point that Tom raised earlier I think  
19 that's a good point and Eric's right, we'll have to see how  
20 it flushes out, but we have done some of that in our  
21 system, particularly at Folsom. There's kind of two ways  
22 to do it.

23 One, you can increase the amount of flood  
24 protection and not re-allocate the costs but have a make up  
25 of impacts that if, in fact, the costs of water, et cetera,

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1 some way to make that up, it could be the offstream  
2 storage, or you could actually re-allocate the costs on the  
3 existing facility and allocate new costs on the offstream  
4 storage and we kind of have a couple ways to look at it and  
5 I guess I've seen it done both ways.

6 MS. McPEAK: Most of the could cost  
7 allocation has been done on a static basis not a dynamic  
8 basis, even though you operate on a dynamic basis for flood  
9 reservation versus water supply.

10 You can only really operate effectively or  
11 efficiently on a dynamic basis.

12 But my contention is -- just let me ask if I'm  
13 right -- the cost allocation has been done on a static  
14 basis generally with a maximum amount of allocation to the  
15 flood management function.

16 So the largest amount that you would need for  
17 flood reservation is the cost allocation to flood  
18 management or public purpose.

19 Is that not true?

20 MR. PATTERSON: I think it's a little more  
21 complicated than that.

22 I think it's actually a separable type cost  
23 analysis where you look at the benefits but you could do  
24 that. You could do it in that way. I'm actually not sure  
25 how it's done on the various facilities now.

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1 MS. MCPEAK: Okay.  
 2 CHAIRMAN MADIGAN: Okay. This has been a  
 3 good conversation, interesting stuff and all timely.  
 4 We are going to go ahead and break for lunch.  
 5 And when we return, we will pick up with Rick  
 6 Breitenbach's part of the presentation on component  
 7 integration and then move on to the update on the  
 8 development of the water quality program.  
 9 I understand lunch for BDAC is in room 105, I  
 10 think, downstairs and we will be back in 45 minutes and  
 11 it's about 12:40 so we'll be back at about 1:25 to start  
 12 again. We are in recess.

13  
 14 (Whereupon the noon recess was taken at.  
 15 12:42 p.m., after which the following  
 16 proceedings were had at 1:36 p.m.:).

17  
 18 CHAIRMAN MADIGAN: All right, ladies and  
 19 gentlemen, the hour of 1:25 having come and gone, the  
 20 Bay-Delta Advisory Council is back in session.

21 And the first item on the Agenda is a  
 22 continuation of the subject on this morning's conversation  
 23 which is component integration and programmatic level of  
 24 detail.

25 We have just completed -- anybody who really

1 but with Lester at some point over the next couple of  
 2 weeks, to consider the timing certainly with regard to the  
 3 restoration plan schedule.

4 I'm just concerned that -- you know, I  
 5 understand that there is some disagreement on the Council  
 6 about this, but I think from the perspective of being the  
 7 Chair of the restoration work that I think it's an issue  
 8 that needs to be revisited in a way that we can come to  
 9 some --

10 CHAIRMAN MADIGAN: Right.

11 MS. SELKIRK: -- satisfaction on the  
 12 issue.

13 CHAIRMAN MADIGAN: I'm happy -- oh well,  
 14 it's hard to know how much satisfaction, if there are  
 15 opposing viewpoints on it. I guess a part of the  
 16 satisfaction has to be some level of confidence that the  
 17 program is going to produce what you expect it to produce  
 18 so that what you review is, in fact, meaningful and your  
 19 review, therefore, is useful.

20 I can always -- I'm pleased to offer up  
 21 Lester's time for additional conversation in this regard,  
 22 and you should be comfortable with the schedule.

23 I guess I would hope that we wouldn't prejudge  
 24 the failure of the product that the -- that's going to be  
 25 produced, and it seems to me that that's a part, at least,

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1 needs to have the conversation that's ongoing right now, if  
 2 you'd step into the hall, it would help the people that are  
 3 in here to focus on the items at hand.

4 We'll continue with Rick Breitenbach's  
 5 presentation as a part of that item.

6 Rick.

7 Yes, Mary.

8 MS. SELKIRK: Before we start the  
 9 afternoon presentation I just wanted to --

10 CHAIRMAN MADIGAN: Let me get the  
 11 microphone on here. Get Mary, okay.

12 Thank you.

13 MS. SELKIRK: I wanted to follow up on an  
 14 issue that was discussed early on this morning before we  
 15 proceed to the afternoon, having to do with the timing of  
 16 the -- that we are facing at CalFed, particularly with  
 17 regard to the restoration plan.

18 We didn't really --- I know there were views  
 19 expressed on both sides by members of BDAC and also by  
 20 members.

21 What I would like to suggest because I think it  
 22 is something that is worth reviewing and discussing further  
 23 is to suggest that a couple of members of BDAC who are  
 24 interested in this issue perhaps with input from the State  
 25 and Feds could deliberate some more, not at this meeting

1 of the assumption that things are going to take a lot  
 2 longer than they otherwise would.

3 If, in fact, the work product isn't adequate,  
 4 then that's, certainly, a fair conversation, but I wouldn't  
 5 want to automatically assume that it's going to be delayed  
 6 now on the possibility that the --

7 MS. SELKIRK: No --

8 CHAIRMAN MADIGAN: -- the work isn't good.

9 MS. SELKIRK: No, I don't mean to imply  
 10 that we are prejudging failure by any stretch, but I think  
 11 there is some agreement that there's a level of analysis  
 12 and peer review that should take place early on rather than  
 13 during the impact analysis -- to when we are well into the  
 14 impact analysis so I think that there is an issue here that  
 15 could use some closer scrutiny before we just let it go.

16 CHAIRMAN MADIGAN: All right. And that's  
 17 fine.

18 If I can make it up here I'll participate in  
 19 that conversation as well.

20 Okay. All right, sure, we will schedule that.  
 21 All right.

22 Rick, where are you?

23 RICK BREITENBACH: What I'd like to do is  
 24 just continue on with the level of detailed discussion that  
 25 Steve began this morning, and what I'm going to do is focus

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1 on the environmental document.

2 As you all know we are preparing a program  
3 document and I'm sure that all of you have a different idea  
4 of what a program document is and what it contains and it's  
5 no different than those of us on the program team. We all  
6 have different ideas as well.

7 So what I hoped to do today and what Steve  
8 started earlier is to begin to get you in a mode where you  
9 understand the direction we are heading with this  
10 programmatic document and also to get you comfortable with  
11 what we are doing or hopefully begin to get you comfortable  
12 with what we are doing.

13 I'm going to talk through a couple of overheads  
14 to differentiate between a programmatic document and a site  
15 specific document.

16 Those of you that were with us when we went  
17 through the scoping effort, I did a similar presentation  
18 but it was on a more generic level.

19 Today I'm going to try to do it with regard to  
20 one of the actual components that we are working on.

21 Following my presentation, and I'll take a cue  
22 from the old Bob Newhart show, my brother Rick and my other  
23 brother Rick are going to come up and talk about their  
24 components and at the same time they will also offer some  
25 information about level of detail with respect to their

1 feet.

2 So one of the options may be 500,000 to a  
3 million and a half acre feet. Another option might be two  
4 million to three million acre feet and so forth. We'll  
5 have a representative range. We'll also talk about  
6 groundwater, conjunctive use, and what we are saying is  
7 that the options may range anywhere from zero to a half a  
8 million acre feet of groundwater and conjunctive use.

9 And then we'll have operational concepts.

10 And Steve had those up earlier today on the  
11 slide talking about how we might operate impact analysis.  
12 In a programmatic document we are going to do a qualitative  
13 and quantitative analysis. Focus on the qualitative side  
14 rather than the quantitative side and we are going to  
15 disclose the general adverse and beneficial impacts so it's  
16 general, it's qualitative. We are not getting overly  
17 specific in the analysis.

18 What we think will come out at the other end is  
19 a narrowed range of options and I think all of you are  
20 familiar with the three that are up there, the  
21 Tomes-Newville complex, Cottonwood complex and Colusa  
22 complex. These are examples of what might show up or what  
23 we might use to go on into the next phase. When we  
24 finished Phase II this is as far as we are going to be able  
25 to go in terms of this is what we think is in the preferred

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1 components.

2 Now, this is hypothetical. Steve showed you  
3 one that was hypothetical north of Delta Storage. I don't  
4 know if two hypotheticals make a real or not but let's  
5 pretend this is still hypothetical.

6 The other thing I want you to remember is that  
7 when we do an alternative, we are not just going to look at  
8 north of Delta Storage.

9 There will be all of the other components tied  
10 to this alternative as well. So there will be ecosystem  
11 restoration, there will be water quality, water use  
12 efficiency, system integrity and some sort of conveyance  
13 component as well.

14 So this first slide illustrates what is going  
15 to happen in Phase II, the Phase II environmental document.

16 The next slide will be talking about the Phase  
17 III environmental document.

18 The left hand side of the slide depicts what  
19 will be there when we start the programmatic evaluation and  
20 what we are thinking when we start the programmatic  
21 evaluation.

22 We'll have a representative set of reasonable  
23 options.

24 Those options will have some sort of surface  
25 storage ranging anywhere from zero to three million acre

1 alternative.

2 Storage options of about a half a million to a  
3 million and a half acre feet.

4 Conjunctive and groundwater storage of about a  
5 tenth to 300,000 acre feet and we'll have refined  
6 operational concepts.

7 Now, let me just switch over to what would  
8 happen when we are actually at the specific level, and we  
9 are preparing a site specific environmental document in  
10 Phase III.

11 If we were looking at the north of Delta  
12 Storage we would have specific sites identified at  
13 Phase III.

14 We won't just have a representative range of  
15 options. We'll have specific sites identified at that  
16 time.

17 We'll do a very specific quantitative and  
18 qualitative analysis. We'll disclose very specific adverse  
19 and beneficial effects as opposed to the general and the  
20 programmatic document and what we'll wind up with is the  
21 site, the preferred site north of Delta.

22 This is at Phase III, this is not at Phase II  
23 where we are right now. We're doing the more general  
24 programmatic document.

25 I would end there and entertain questions.



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1 CHAIRMAN MADIGAN: Questions.  
 2 Alex.  
 3 MR. HILDEBRAND: This morning I made the  
 4 comment that it seems to me the objective isn't the volume  
 5 of storage.  
 6 It's the yield of water and the benefits that  
 7 you might derive from that, and you haven't commented on  
 8 the difference between that and what you were proposing  
 9 here.  
 10 RICK BREITENBACH: My sense is that they  
 11 go hand in hand.  
 12 You have an alternative that says that there is  
 13 storage, if I'm thinking of this in the right way, and do  
 14 you an evaluation that tells you what sort of yield, what  
 15 sort of benefits, what sort of costs are involved in that,  
 16 not only economic but environmental and so forth.  
 17 CHAIRMAN MADIGAN: Lester.  
 18 RICK BREITENBACH: And that's what comes  
 19 out of the environmental document.  
 20 EXECUTIVE DIRECTOR SNOW: Yeah.  
 21 MR. HILDEBRAND: It bothers me to have it  
 22 sound as though the objective is a pot of storage  
 23 regardless of how often you can fill it and that sort of  
 24 thing. Rather than having the objective stated as having  
 25 an increase in the water supply, which can be used in the

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1 optimum manner.  
 2 It seems to me we are not emphasizing the right  
 3 thing.  
 4 CHAIRMAN MADIGAN: Lester.  
 5 EXECUTIVE DIRECTOR SNOW: Actually, Alex,  
 6 I couldn't agree with you more, that one of the things that  
 7 is not an objective to make some determination is how big  
 8 of a pot can you find somewhere in the State.  
 9 I mean really what drives the analysis is what  
 10 can you accomplish with the storage, fish flows, water  
 11 supply, water quality. I mean, there's all kinds of issues  
 12 and that's really what drives the analysis.  
 13 Simply looking at potential reservoir sites and  
 14 saying the site acts as the largest one available, that  
 15 would have almost no bearing in the process that we are  
 16 moving forward on.  
 17 CHAIRMAN MADIGAN: Roberta.  
 18 MS. BORGONOVO: I had a question about the  
 19 relationship between the programmatic EIS and the site  
 20 specific EIS.  
 21 When you do the site specific EIS, it's done  
 22 after the 1998, when the final programmatic EIS is done?  
 23 And then that was my first question.  
 24 My second question is then is the site specific  
 25 constrained by what's in the programmatic so that if there

1 is a range in the programmatic when you go to site  
 2 specific, that you're within that range and then you are  
 3 simply going into more detail?  
 4 RICK BREITENBACH: The first question, I  
 5 believe that we can start environmental documentation,  
 6 whether it be an EIR, EA Fonzie or something like that  
 7 before we reach the final -- 1998 final Record of Decision.  
 8 I don't think your precluded from doing that.  
 9 I think you should probably wait until after  
 10 the Record of Decision is in place before you actually  
 11 start putting something that you're doing an environmental  
 12 document into place and the subsequent environmental  
 13 document into place.  
 14 The second question one more time?  
 15 MS. BORGONOVO: What then goes into the  
 16 site specific environmental documentation within the  
 17 parameters that have been laid out in the programmatic  
 18 EIR/EIS?  
 19 RICK BREITENBACH: Yes.  
 20 CHAIRMAN MADIGAN: That's a yes.  
 21 RICK BREITENBACH: The answer is yes.  
 22 And we hope that we have bracketed the range  
 23 wide enough to fit things that may come further.  
 24 CHAIRMAN MADIGAN: All right.  
 25 Anybody else? Do you want to call your

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1 brother, Rick?  
 2 RICK BREITENBACH: Okay.  
 3 MR. BELZA: Mike, the perfect time to  
 4 interject the song or the cheer, whichever is applicable  
 5 for BDAC, during these lulls?  
 6 CHAIRMAN MADIGAN: Yes, that would be a  
 7 good idea. Sure, we can kind of fill the voids.  
 8 RICK WOODWARD: Chairman Madigan, members  
 9 of the Council, I appreciate the opportunity to speak to  
 10 you today concerning the current status of the water  
 11 quality program, its accomplishments to date and our plans  
 12 for the future.  
 13 Now, we are trying to create a technological  
 14 bridge to the 21st century with this equipment today so  
 15 just in case we have these standard overheads.  
 16 I should mention that I have with me today  
 17 Wendy Halverson Martin, who is over here and she is one of  
 18 our leading staff experts on the environmental impact  
 19 documentation and that sort of thing and so I will be  
 20 calling on her when I get myself in trouble.  
 21 These prepared remarks will last about 25  
 22 minutes, which I think should leave sufficient time for  
 23 discussion afterwards.  
 24 The water quality objective is to provide good  
 25 water quality for all beneficial uses, including

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1 environmental, ecosystem, agricultural, municipal,  
2 industrial, and recreational uses.  
3 I'm sure you all remember that water quality is  
4 one of the program components, that when integrated with  
5 the other components of the program will form alternatives  
6 for solving the problems of the Bay-Delta Estuary.

7 Pretty fancy, huh?

8 I'd like to spend a few minutes at this point  
9 to revisit the history of the Water Quality Component.

10 To get started, we created three technical  
11 teams composed of stakeholders to represent ecosystem water  
12 quality, agricultural water quality and urban water quality  
13 interests.

14 These teams helped us to identify the water  
15 quality characteristics of interest and to identify  
16 potential corrective measures.

17 Having gotten that far we believed it was then  
18 necessary to include in our deliberations not only  
19 potential beneficiaries of improved Estuary water quality  
20 but also those, such as permitted discharges, watershed  
21 protection entities and agricultural chemical suppliers who  
22 might be affected by activities of the water quality  
23 program.

24 Having made an effort to reach these interests  
25 we formed a Unified water quality technical group that is

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1 the body charged with providing the CalFed team with  
2 ongoing technical assistance and advice.

3 We intend that this group remain in existence  
4 indefinitely.

5 Now, here is where I can blow it (indicating).

6 See, if you don't hit this little button  
7 exactly right, it crashes the program. Ah.

8 The geographic problem area of the water  
9 quality program is the Bay-Delta Estuary. In other words,  
10 it is the -- within this area that the water quality  
11 problems exist that we intend to try to correct.

12 In solving the problems of the Estuary we plan  
13 to undertake activities as necessary throughout the  
14 watershed's tributary to the Delta and within the service  
15 areas the water supplies taken from the Delta.

16 In your meeting packets we have included an  
17 issue paper that suggests CalFed's role in water quality  
18 should focus on comprehensive watershed wide solutions that  
19 integrate and coordinate water quality improvement efforts  
20 of State, local and Federal entities.

21 We believe a well thought out definition of the  
22 CalFed role in watershed protection will greatly aid the  
23 water quality program in accomplishing its mission while  
24 alleviating concerns that somehow CalFed would usurp  
25 existing roles of other entities or add unnecessary

1 bureaucratic layers onto existing processes.

2 We've come to you today to solicit your  
3 thoughts and help us to determine an appropriate role for  
4 CalFed in watershed protection for water quality and we'll  
5 be returning to this subject later on.

6 Turning now from the organization of the water  
7 quality program and to the products of the program, I'd  
8 like to illustrate how we've gone forward from the general  
9 to the specific.

10 The expert water quality stakeholders working  
11 with us have helped us identify water quality parameters of  
12 concern to CalFed, effective beneficial uses, problem  
13 areas, target ranges, problem sources, and programmatic  
14 actions that would be expected to correct identified water  
15 quality problems.

16 All of the work down through the actions falls  
17 within Phase II of the program related to specific, to the  
18 production of the programmatic EIR/EIS, while specific  
19 projects to implement water quality action generally fall  
20 within Phase III of the CalFed Program as depicted here.

21 There can be exceptions to this schema and  
22 we'll revisit that a little bit later.

23 The stakeholders identified a number of water  
24 quality constituents that are thought to potentially  
25 present water quality concerns in the Bay-Delta Estuary.

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1 These include chemical elements, such as  
2 copper, mercury and zinc that can be toxic to fish and  
3 other aquatic organisms, pesticide residues from  
4 agricultural or municipal sources that can cause toxicity  
5 to aquatic organisms, minerals including salts, boron and  
6 bromide that can adversely affect crops and the ability to  
7 recycle water and that along with organic carbon can form  
8 unwanted chemical byproducts in drinking water.

9 Nutrients from very sources can stimulate  
10 unwanted aquatic growths and cause taste and odor in  
11 drinking water supplies. Elevated water temperatures from  
12 thermal discharges can adversely affect the ecosystem and  
13 turbidity caused by soil erosion can affect a number of  
14 uses of Delta waters.

15 Let us use copper as an example of how we  
16 envision moving from the parameters of concern to specific  
17 corrective measures.

18 Copper is of concern because it can be toxic to  
19 fish and other aquatic life.

20 The Upper Sacramento watershed is one source  
21 area. The existence of a problem with copper pollution in  
22 this area depicted has been pretty well established.

23 The water quality control plan or basin plan as  
24 it is better known produced by the State and regional water  
25 Quality Control boards sets a copper objective of 5.6 parts

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<p>1 per billion for the Sacramento River upstream of Hamilton 2 City and is intended to protect fish and other aquatic 3 life. 4 This objective, we believe, is an important 5 target for copper in this section of the river. We would 6 plan, therefore, to use this number to evaluate a water 7 quality problem with copper in this part of the river and 8 ultimately to measure the effectiveness of control or 9 prevention measures that might be taken there. 10 Possible sources of copper in the Upper 11 Sacramento River system may include acid mine drainage, 12 waste water treatment plant discharges and urban stormwater 13 runoff. 14 Of these acid drainage from abandoned and 15 inactive mines has been determined to be important. 16 Now, getting back to the source of the problem, 17 let's take a closer look, and we will see that the 18 locations of some of the abandoned or inactive mines that 19 are known to contribute copper to the Upper Sacramento 20 River. Programmatic actions that might be taken to reduce 21 concentrations in the river would be directed toward 22 reducing discharges from these mines. 23 The programmatic EIR/EIS is likely to include 24 one or more actions directed toward reduction of mine 25 drainage.</p>	<p>1 pretty important and so I'd like to provide another 2 example. 3 Pathogenic organisms, such as crypto sporidium 4 bacteria and viruses can present health risks in drinking 5 water to recreationists or potentially to other organisms 6 dependent on the Delta. Pathogens are among water quality 7 parameters of concern in the Delta because the Estuary is 8 an important recreational area, is the source of drinking 9 water to about two-thirds of State's population and is the 10 home to many important species of fish and wildlife. 11 The problem area for pathogens in which we are 12 interested is, therefore, the Delta Estuary. 13 Currently there is no water quality criterion 14 for pathogens and organisms in surface waters, though 15 guidelines are being developed. 16 This illustrates one of the complications faced 17 by the water quality program. 18 We need to be able to evaluate the 19 effectiveness of various combinations of actions. In cases 20 such as this when there is not an established numerical 21 criteria we'll have to decide how best to evaluate 22 alternatives for protecting the Estuary. 23 Our thinking is that in cases such as this 24 we'll need to rely upon the best judgment of experts. 25 Fortunately, through the water quality technical group we</p>
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<p>1 Here is a picture for you showing you what mine 2 drainage might look like. 3 Now, translating actions into specific projects 4 to implement actions is generally the province of Phase III 5 of the CalFed program, where site specific environmental 6 documentation will be prepared and projects implemented. 7 With respect to the copper example a specific 8 project might be to reroute a stream around a certain mine 9 tailings pile so that the tailings cannot release copper 10 into the stream to be carried into the Sacramento River. 11 I do need to probably make the usual disclaimer 12 that this is just an example and is not intended to reflect 13 the opinion that this type of problem is more important 14 than any other. 15 So I hope you can see how using the copper 16 example we moved from copper as a water quality parameter 17 of concern to its identification as a potential problem in 18 a certain area, to actions that would improve the condition 19 and in Phase III to specific projects that would implement 20 the action. 21 To date we've identified about 30 programmatic 22 actions that might be taken to improve the water quality in 23 the Bay-Delta problem area. 24 I think the concept of the progression from the 25 general to the specific in the water quality program is</p>	<p>1 have access to the experts. 2 One potential source of pathogens for this 3 example in the Estuary is waste discharges from boats and 4 boating activities. 5 Therefore, a programmatic action might be taken 6 to improve the situation and to control or eliminate 7 discharges. 8 And this is stated at what we believe to be the 9 programmatic level of detail. 10 And one might implement such an action by 11 installing floating sanitary facilities for day use boaters 12 and by increasing enforcement regulations for sanitary 13 facilities on the boats resident in the Delta. 14 Again, trying to illustrate how the water 15 quality program is intended to move from the general 16 concerns to specific projects to alleviate those concerns. 17 As with the copper example the work down to the 18 programmatic action statement generally is accomplished in 19 Phase II of the CalFed process while implementation of the 20 action to specific projects will be done during Phase III 21 requiring project specific environmental documentation. 22 You can stay with me. I'll show you just one 23 more example and then I promise to stop. 24 Selenium is the water quality parameter of 25 concern because in elevated concentrations it can be toxic</p>

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1 to birds, fish, and other aquatic and terrestrial life.

2 The problem we are going to talk about today is  
3 in the lower region of the San Joaquin River and in the  
4 Delta Estuary.

5 The water quality control plan establishes a  
6 limit of five parts per billion for selenium in the river.

7 The primary source has been determined to be  
8 subsurface agricultural drainage in the grasslands area of  
9 the San Joaquin Valley.

10 This shows you the grasslands area.

11 The San Joaquin Valley drainage improvement  
12 program is a large inter-agency program that has been  
13 engaged for some years in exploring solutions to Valley  
14 drainage problems.

15 Their report recommendations land use  
16 conversion of some 45,000 to 90,000 acres in the grasslands  
17 area where selenium concentration and subsurface drainage  
18 are high.

19 This illustrates another important point.

20 We see the CalFed role in water quality as not  
21 reinventing the good work of others.

22 Instead we see ourselves as fulfilling a  
23 coordination and facilitation role unifying the efforts of  
24 others into a comprehensive whole throughout the CalFed  
25 solution.

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1 Therefore, the recommendation of the drainage  
2 program report, using that recommendation, I should say,  
3 land use conversion, is identified as a programmatic action  
4 that if integrated with a number of other drainage  
5 management activities would be expected to improve selenium  
6 conditions in the Estuary.

7 One might implement a programmatic action  
8 through negotiating a contract with a willing landowner to  
9 change land use practices in such a way as to reduce  
10 selenium migration from the property.

11 And once and for the last time we are  
12 illustrating the activities that constitute Phase II of the  
13 program as compared to those which constitute Phase III of  
14 the program.

15 Now, this one, if I do hit the button in the  
16 middle, it crashes the program. Ah, (whistles) I thought  
17 you had me there for a minute.

18 Concerning linkages, we've been focusing on the  
19 word -- I'm just going to move you forward into what we are  
20 going to be doing in the future, whereas we've been talking  
21 about what we essentially have done.

22 Next we are going to be developing linkages  
23 formulating and analyzing alternatives and working on  
24 assurances.

25 And I have some examples that will give you an

1 idea of how that's going to work.

2 The water quality program can't stand by itself  
3 and must be integrated with the other components of the  
4 CalFed Program in order to arrive at alternatives for the  
5 evaluation in the environment documentation.

6 I'd like to provide you with an example to  
7 illustrate what linkage means to us and how we might  
8 proceed. In this example we'll create linkage among system  
9 integrity, ecosystem restoration, and water quality program  
10 components.

11 A wetland might be designed and constructed on  
12 a Delta Island which would have one of its primary  
13 purposes, the enhancement of wildlife habitat.

14 In addition, however, it would have design  
15 features to help reduce island subsidence, which is one of  
16 the largest threats to Delta levee stability.

17 We think this might be possible by designing  
18 and operating a facility in such a way as to reduce  
19 oxidation of the peat soils and even to cause new  
20 deposition to raise the land surface.

21 Recent experiments indicate soil oxidation on  
22 peat islands may be reversible by maintaining soils in an  
23 inundated condition.

24 This solution of organic soils into Delta water  
25 supplies is known to cause problems for drinking water

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1 producers because of the formation of unwanted chemical  
2 by-products of the drinking water disinfection process.

3 The wetland would be designed and operated so  
4 as to minimize dissolution of peat soil or to reduce  
5 discharges for -- from Delta islands into the Delta  
6 channels.

7 Therefore, as I think of it, linkage is a  
8 process whereby we will optimize actions to accomplish  
9 multiple objectives.

10 Alternatives to be analyzed in Phase II of the  
11 program will be constructed through these linkages.

12 Getting back to a diagram that you've all seen  
13 before, we have been discussing water quality activities  
14 that constitute Step 1 in the process, see my little arrow,  
15 and we are talking about the linkage activities that would  
16 occur in Step 2 of the process.

17 So this is how water quality work today fits  
18 into the overall CalFed plan.

19 We'll be moving forward soon to undertake  
20 impact analysis that will provide the information for  
21 creation of the draft programmatic EIR/EIS.

22 Let me give you an idea how the water quality  
23 impact analysis would be done.

24 Let's take copper as an example. Of course,  
25 we'd have to perform the same type of analysis for all of

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1 the water quality parameters of concern.  
2 We'll be evaluating how copper concentrations  
3 would change with implementation of the three programmatic  
4 alternatives with different permutations of storage and  
5 conveyance.  
6 Typically we would run a mathematical model to  
7 determine what flow changes would result from implementing  
8 an alternative.  
9 Then based on what we know about copper loads  
10 coming into the system we would compute the resulting  
11 changes in copper concentrations.  
12 This will be an iterative process because once  
13 we recalculated a result, meaning an alternative, we'll  
14 need how to consider how to optimize the alternative's  
15 ability to reduce copper concentrations and this would have  
16 to take into account the need to optimize the alternative  
17 with respect to ecosystems, supply and system integrity  
18 features.  
19 In attempting these evaluations we are destined  
20 to run into problems with limitations of available  
21 information.  
22 We will consequently need to rely to some  
23 extent on expert judgment and providing us with expert  
24 judgments is the -- one of the primary functions of the  
25 water quality technical group.

1 project management infrastructure exists and perhaps where  
2 there is some sort of cooperative fund.  
3 Finally, projects that require more complete  
4 study in development would be staged allowing the necessary  
5 time to develop information, design and to develop project  
6 management infrastructures in order to get the project  
7 implemented.  
8 We have invited the existing watershed  
9 management groups in the area and also members of the water  
10 quality technical group to provide us with suggestions for  
11 projects that might implement the 30 or so water quality  
12 actions that we have identified in our process. We are  
13 currently compiling a list of such projects and will soon  
14 begin to evaluate whether some could be done in the first  
15 stage of project implementation.  
16 Turning now to assurances.  
17 The water quality stakeholders have identified  
18 a number of areas where assurances are desired. There is a  
19 perceived need for assurance that CalFed water quality  
20 activities will be appropriately coordinated with other  
21 ongoing water quality efforts.  
22 There is a need for assurance that an equitable  
23 portion of CalFed funding will be made available to the old  
24 water quality problems.  
25 And for assurance that before an irretrievable

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1 We plan to realize CalFed's objectives through  
2 an initial five-year plan of staged project implementation.  
3 Earlier we indicated that implementation of  
4 specific projects is generally the province of Phase III of  
5 the CalFed process, but there may be exceptions.  
6 Some water quality actions may not necessarily  
7 be dependent upon the programmatic EIR/EIS which is being  
8 developed in Phase II of the process.  
9 In the area of water quality implementation  
10 have some projects might be highly desirable irrespective  
11 of which alternatives are selected in the programmatic  
12 document and it would not affect descriptions of  
13 alternatives or choices among alternatives.  
14 It might, therefore, be possible to implement  
15 worthy projects through separate environmental  
16 documentation that might enable earlier project  
17 implementation than would otherwise been possible.  
18 The first projects to be implemented might,  
19 therefore, be those that are not dependent upon the  
20 programmatic EIR/EIS.  
21 The second stage of projects to be implemented  
22 might be those that are dependent upon the programmatic and  
23 would significantly benefit Delta water quality and have  
24 other attractive features, such as having been well studied  
25 that employ local partnerships where a local or regional

1 commitments of resources occur, actions in projects to  
2 implement those actions are adequately supported by  
3 scientific study.  
4 There is a need for assurance that before  
5 resources are committed there is some certainty of benefit  
6 and finally for assurance the stakeholders will have the  
7 opportunity to continue to participate in the CalFed  
8 decision-making process.  
9 These needs for assurances have arisen from our  
10 interaction with our stakeholders.  
11 Now, moving on to policy issues. We believe  
12 that CalFed's watershed protection role is an issue.  
13 The issue paper in your packet suggests that  
14 water quality programs should perhaps have a watershed  
15 focus. We've asked for your advice on whether an  
16 appropriate watershed protection role for the water quality  
17 program would be focused on coordination and integration of  
18 local, regional, State and Federal efforts of others.  
19 We've also asked you whether you think it would be  
20 appropriate for the water quality program to undertake  
21 development of a comprehensive watershed wide means of  
22 performing water quality assessments.  
23 Your views on these matters would be  
24 appreciated and we'll return to that last.  
25 If I could just take a few seconds to mention

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1 some upcoming events.  
 2 We are having a Public Workshop on February  
 3 4th.  
 4 The next meeting of the water quality technical  
 5 group is February 14.  
 6 And another meeting of the water quality  
 7 technical group is scheduled for April 1st.  
 8 I cordially invite members of the Council to  
 9 join us for any or all of these events.  
 10 Okay. As to our vision of the water quality  
 11 program to be sure we are trying to do all of the things  
 12 that I just talked about and we are hopeful that we'll be  
 13 able to begin soon to actually do some of the things that  
 14 need to be done for water quality in the Estuary, but to me  
 15 the greater importance of our work is to gather the best  
 16 water quality people and to build a team that will stay  
 17 together for many years while the CalFed process moves  
 18 forward into implementation.  
 19 Over the coming years many expert judgments and  
 20 decisions will need to be made and we want to keep our team  
 21 together to help us to make those decisions.  
 22 I believe only in this way will we be  
 23 successful in the long-term in dealing with the many  
 24 complex water quality problems affecting the Delta Estuary.  
 25 Mr. Chairman and Council members, I'd like to

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1 leave you with a quotation that I like very much from  
 2 Winston Churchill, who said "It's not always sufficient to  
 3 do one's best. Sometimes one must do what is necessary."  
 4 I believe this question -- this quotation  
 5 applies very well to the Cal-Fed process, to all of us  
 6 involved in this process and particularly to the Water  
 7 Quality Component.  
 8 Indeed it would he know been enough for us to  
 9 do our best. We are going to have to go beyond that to do  
 10 what's necessary to succeed.  
 11 I don't know exactly how we are going to do  
 12 that, but I have great confidence that we will because we  
 13 have the advantage of having the best water quality people  
 14 in California working with us on this thing, and in my mind  
 15 that means -- that is to say we have the best water quality  
 16 people anywhere.  
 17 These folks, I think you'll find that failure  
 18 is just not an option.  
 19 Thank you very much for your attention and your  
 20 interest.  
 21 CHAIRMAN MADIGAN: Thank you, Rick.  
 22 Are there members of the BDAC that have  
 23 questions at this point? If not we should -- I'm sorry,  
 24 okay, right. Robert and then --  
 25 MR. MEACHER: One, I suppose if the BDAC

1 were to begin notices, since it doesn't appear on our  
 2 calendar of technical meetings -- I didn't jot it  
 3 down -- are you going to start jotting those down or  
 4 posting them with the rest of our CalFed meetings?  
 5 RICK WOODWARD: I think that's a very good  
 6 idea.  
 7 MR. MEACHER: And to date who is on that?  
 8 Anybody know?  
 9 CHAIRMAN MADIGAN: Let's find out an  
 10 answer in terms of our being informed.  
 11 Is there somebody who can tell us whether or  
 12 not the BDAC is going to get as a regular matter of our  
 13 information the scheduled dates of those meetings?  
 14 (No response)  
 15 Well, we'll find the answer to that one out.  
 16 MR. MEACHER: I had another question.  
 17 Are you asking for considerations today those  
 18 two items --  
 19 RICK WOODWARD: Yes, today or any other  
 20 time.  
 21 MR. MEACHER: -- a consensus?  
 22 CHAIRMAN MADIGAN: Or at least for  
 23 discussion.  
 24 EXECUTIVE DIRECTOR SNOW: Discussion.  
 25 CHAIRMAN MADIGAN: I think we should

1 discuss them.  
 2 I want to go ahead and get any questions that  
 3 you have about the specific presentation out of the way  
 4 because I do want to discuss those two items.  
 5 MR. MEACHER: Okay. Then I'll wait.  
 6 CHAIRMAN MADIGAN: Judith.  
 7 MS. REDMOND: One question I have is  
 8 actually whether -- it seemed like the role of agricultural  
 9 pesticides and water quality wasn't clear to me.  
 10 I was wondering how they ranked, related to  
 11 some of the other water quality issues that you are  
 12 addressing and what some of the approaches you are using to  
 13 deal with them are going to be.  
 14 RICK WOODWARD: We haven't ranked the  
 15 problems as in terms of which one is more important than  
 16 the other.  
 17 I think that we are still in the process of  
 18 sorting that sort of thing out, although, of course, we are  
 19 very well aware of some data that would indicate that at  
 20 certain times toxicity from pesticide residues can be a  
 21 problem.  
 22 But we haven't necessarily suggested that any  
 23 one problem is more or less important than another. I  
 24 think that that really depends upon to what beneficial use  
 25 are you directly concerned?

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1 And I think all of these water quality  
2 parameters of interest are of interest to some part of our  
3 community so we are trying to work through them sort of in  
4 tandem rather than by prioritizing.

5 CHAIRMAN MADIGAN: All right. Then why  
6 don't we get on and -- yes, I'm sorry --

7 MS. REDMOND: I had a couple other little  
8 questions.

9 CHAIRMAN MADIGAN: Sure.

10 MS. REDMOND: I noticed that the question  
11 about agricultural pesticides is motivated because it  
12 hadn't really been mentioned in the earlier presentation or  
13 in this one.

14 CHAIRMAN MADIGAN: Okay.

15 MS. REDMOND: And the second question had  
16 to do with land conversion. I know there are a lot of  
17 people who are very concerned about it and I don't mean to  
18 bring up a red herring question but I wondered if you had  
19 any sense at this point about the level of involvement in  
20 the land conversion and land retirement programs that are  
21 going on with the bureau and DWR and so forth?

22 RICK WOODWARD: Well, as mentioned in that  
23 discussion, the San Joaquin Valley drainage improvement  
24 program, their report identifies acreage that would be  
25 converted to other usage, some 45 to 90,000 acres and we

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1 are essentially using that as the guideline for what might  
2 be appropriate to do with respect to water quality.

3 CHAIRMAN MADIGAN: Okay.

4 MS. REDMOND: I have a third question.

5 CHAIRMAN MADIGAN: Sure.

6 MS. REDMOND: This actually isn't as much  
7 a question as just a statement.

8 And, that is, that in reading the items in the  
9 booklet I was very amused to see that watershed management  
10 was included in this -- the Water Quality Component because  
11 I think that watershed management can be a very important  
12 way to store -- to enhance a watershed's ability to store  
13 groundwater and to release it slowly and that, you know, we  
14 often think about dams and engineering solutions and I  
15 think that research that we've seen is showing that using  
16 various different approaches in watershed management; for  
17 example, plantings of native perennial grasses and so forth  
18 can really enhance the ability of rangelands to restore  
19 water and restore groundwater tables and restore little  
20 natural springs in a watershed to clean water as it goes  
21 into the ground through the percolation process.

22 So I think that as this component of the  
23 program evolves and the definition of watershed management  
24 broadens, that that will be a very important area and I was  
25 really glad to see that it had been included.

1 CHAIRMAN MADIGAN: Okay.

2 MS. REDMOND: I guess if I was going to  
3 frame that as a question, I would be curious if the  
4 technical group has looked at the use of native perennials  
5 grasslands and enhancing range practices and grasslands to  
6 improve the ability of the watershed to hold water.

7 CHAIRMAN MADIGAN: Rick.

8 RICK WOODWARD: The -- I think that this  
9 does bring up a good point.

10 The area of water -- first off, I think that  
11 depending on whose definition you would care to use for  
12 watershed management that might conceivably apply to  
13 anything that CalFed might do or think of doing.

14 So for the water quality program I think what  
15 we are defining as our area of the watershed management is  
16 watershed protection for water quality.

17 So I don't think that the use of perennial  
18 grasses and so forth to enhance flow would necessarily fall  
19 within something that the water quality program would  
20 undertake, although it would be likely with some of the  
21 riparian work that would be done that there would actually  
22 be some water quality benefits accruing to it, but I  
23 believe that we'd probably look to some of the other  
24 elements of the CalFed Program to take the lead on  
25 something like that.

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1 CHAIRMAN MADIGAN: Lester.

2 EXECUTIVE DIRECTOR SNOW: Judith's  
3 question has revealed an issue I know that Bob Meacher had,  
4 also, and that is what we had done because we are  
5 presenting the water quality program has pulled out the  
6 broader context of the watershed management the specific  
7 water quality aspects of it, however, there are other  
8 aspects of effective watershed management, including the  
9 habitat and the water supply benefits and even some aspects  
10 of flood control benefits associated with healthy  
11 watersheds.

12 That concept is in our program and we are  
13 currently working with RCRC, Sierra Nevada Alliance and  
14 other groups to come up with that kind of tight definition  
15 that includes all of those components.

16 But what Rick has shown today is that piece  
17 that clearly fits into our water quality strategy but those  
18 other elements of watershed management are still there.

19 CHAIRMAN MADIGAN: All right. I have  
20 several questions.

21 Bob and then Alex.

22 MR. MEACHER: I suppose you may not be  
23 able to answer all of these right now, Lester, but where  
24 would you see, like Judith's question, the grasslands  
25 fitting in and some of these other things, under what

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1 discussions or workshops, round tables would some of those  
2 issues that she raised be the venue for that of CalFed  
3 structure?

4 EXECUTIVE DIRECTOR SNOW: Probably the  
5 next place that that issue comes up is within the context  
6 of the ecosystem program where there is issues of watershed  
7 management and rangeland management, kind of specific to  
8 that point, that are a component of tributary restoration  
9 and ecosystem program.

10 It's not as clear in the context which comes up  
11 in the water supply issue and that's why we are still  
12 trying to come up with that comprehensive definition  
13 because one of the things that we noticed and I know those  
14 of you who work in this field know this all too well, is  
15 that people say the term watershed management, everybody  
16 nods as though they agree on what the definition is and you  
17 scratch the surface and find out they have very different  
18 definitions of what that means and we are trying to come up  
19 with a good, strong, clear statement of what watershed  
20 management means in the CalFed Program and so we are  
21 attempting to work with the interested parties to come up  
22 with that and then bring it back through the process.

23 CHAIRMAN MADIGAN: Alex and then Marcia.

24 MR. HILDEBRAND: I don't think we've given  
25 Rick the direct answer to the question he has on the

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1 screen.

2 While recognizing the complexities that Lester  
3 has just discussed, which are very real, my answer,  
4 nevertheless, would be yes to that question.

5 CHAIRMAN MADIGAN: All right. There is a  
6 vote for a yes.

7 Thank you.

8 Marcia.

9 MR. BROCKMAN: I'm interested in how you  
10 are going to coordinate with the State Water Resources  
11 Control Board which has initiated -- well, the watershed  
12 management initiative.

13 It's my understanding that the regional boards  
14 are taking the lead on watershed management.

15 Are we talking about CalFed just doing water  
16 quality coordination or how exactly are you working with  
17 the State Board on this?

18 RICK WOODWARD: Well, with respect to the  
19 State Board there is a meeting actually today over there to  
20 talk about some of the watershed protection -- or watershed  
21 management funding from Prop 204 and our staff are  
22 attending that and we have a meeting set up with them about  
23 next week to talk about it.

24 I think what our approach to this is going to  
25 be is that we will just coordinate fully with both the

1 State and the regional boards in their implementation of  
2 their work. And we've talked to them and I think they are  
3 very anxious that this coordination be a very positive  
4 thing so I'm very optimistic that we'll do a good job on  
5 that.

6 CHAIRMAN MADIGAN: Michael, did you want  
7 to add to that?

8 MR. MANTELL: I just wanted to add that  
9 the proposed budget for next year actually includes a major  
10 watershed initiative that goes beyond just the Water Board  
11 and the Regional Board.

12 It includes the Department of the Forestry and  
13 Fire Protection, the Department of Conservation in its work  
14 with the RCD's and our Department of Fish and Game and it  
15 totals about four million dollars to do watershed  
16 assessments, to form alliances, to improve water quality  
17 and also to ensure that we are not just -- the State  
18 Government in regulating in water is not just reacting to  
19 permits that come through but is looking at what the  
20 broader needs of the watershed are and then assessing  
21 permits applications within that and assigning mitigation  
22 as well.

23 So there is a lot of opportunity I think for --

24 CHAIRMAN MADIGAN: Are we running the risk  
25 of some duplication of effort of CalFed?

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1 MR. MANTELL: I think we can at the right  
2 time that it can be added and that's what I would want to  
3 help Foster.

4 CHAIRMAN MADIGAN: Okay.  
5 Roberta.

6 MS. BORGONOVO: I think Marcia was asking  
7 the question I had, which is what would be the role of the  
8 State Water Resource Control Board since that's been a  
9 focus of theirs.

10 But I think it also relates to the question is  
11 it appropriate?

12 I certainly think that there needs to be a lead  
13 agency that will assume the overall coordination and  
14 integration of the role and because you have CalFed perhaps  
15 it answers these questions that not having duplication  
16 since those agencies are already involved in that, but I  
17 think it also will relate to some of those other questions  
18 because I'm glad that Lester mentioned that this is part of  
19 an overall watershed program and so when you pull out the  
20 one piece the question is are you also doing watershed  
21 management for ecosystem restoration and all of that.

22 CHAIRMAN MADIGAN: Mike, do you have any  
23 thoughts on this?

24 MR. STERNS: Well, I think it's really a  
25 complicated process.



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1 You know, from my perspective the local folks  
2 have gone a long way in developing drainage reductions and  
3 it's all been done through the basic plan amendment and  
4 Regional Water Quality Control Board input.

5 I do see the CalFed process needing to factor  
6 that into the solutions in the Delta and providing that  
7 information to all those that are involved, but I would  
8 hope that the process is in place as it happens would be  
9 able to move forward without another layer of involvement  
10 or regulation.

11 CHAIRMAN MADIGAN: So there is a note of  
12 caution here in terms of our duplicating things and maybe  
13 what Michael said earlier, we need to consider. Okay.

14 Let me, having heard that, there is always a  
15 great temptation to say, yeah, you bet we should do these  
16 things, too, and there, apparently, is a role for us here.

17 And I guess my feeling is that we should  
18 approach it, Lester, with some caution because there are  
19 existing institutions who have some of these  
20 responsibilities and that we ought to be identifying what  
21 our appropriate role would be in working with them and  
22 supporting local and State agencies to -- and, certainly,  
23 in terms of the first question.

24 I don't know. Other thoughts?

25 MR. MEACHER: I have one, Mr. Chairman.

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1 CHAIRMAN MADIGAN: Bob.

2 MR. MEACHER: It doesn't appear on the  
3 screen but in your book on the second to the last page  
4 where this is written it says "In accomplishing its water  
5 quality mission is it appropriate for CalFed to assume an  
6 overall coordination and integration role in watershed  
7 protection including", and then they have the two bulletin  
8 items up there I guess I would submit to BDAC that the  
9 watershed protection as defined in this is part of an  
10 overall watershed plan.

11 And we are sort of pigeonholing this one thing  
12 when I see the watershed protection is part of a larger  
13 picture. Where these two statements fit with what Lester  
14 was saying about upper watersheds, forced management,  
15 forced help, and we'll be going back and having to do this  
16 over and over again so if I'm making any sense here I would  
17 just say watershed management and for the purposes of this  
18 we are talking about watershed protection.

19 Am I making any sense to anybody here in this  
20 room?

21 IN UNISON: (Affirmative nod)

22 CHAIRMAN MADIGAN: Other thoughts  
23 on -- particularly on the first bullet? (No response)

24 CHAIRMAN MADIGAN: Okay. Rick, is that  
25 helpful in terms of things, what you were looking for?

1 RICK WOODWARD: It's quite helpful. Thank  
2 you.

3 CHAIRMAN MADIGAN: Let's go on to the  
4 second one, a leadership role in coordinating water quality  
5 assessment activities in the watershed, data collection  
6 protocols, application of Quality Control standards and  
7 analyses, that sort of thing.

8 Thoughts? Michael, maybe I should ask for your  
9 opening thoughts because some of that clearly has already  
10 taken place.

11 MR. MANTELL: Yeah, I'm more than happy to  
12 facilitate greater collaboration among the State agencies.  
13 I mean, I may not be addressing it exactly correct.

14 CHAIRMAN MADIGAN: My fear, I guess, is  
15 that I want us to be -- in the CalFed process to be helpful  
16 in this because it's an important question, but I don't  
17 want us to take on responsibilities for something that  
18 somebody else is already doing well.

19 MR. MANTELL: Let me just -- first of all,  
20 we have -- there's a number of coastal watersheds. They  
21 are the focal point of our initiative and that clearly  
22 would not be in the ambit of CalFed.

23 Particularly in the northern coastal areas.

24 In terms of the watersheds that are part of the  
25 solutions set for CalFed, I just don't know yet about the

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1 leadership role. I think that has to be sorted out. I  
2 think that there is a definite role and it may be that it  
3 evolves into a leadership role.

4 But I think that we need to have a series of  
5 discussions to work that through and you've got regulatory  
6 agencies, particularly at the State level but also in the  
7 Federal level that have significant responsibilities and  
8 this has got to be more of a collaboration than just  
9 assigning a leadership role.

10 CHAIRMAN MADIGAN: Thank you.

11 Mary and then Ann.

12 MS. SELKIRK: Yeah, I just wanted to  
13 comment.

14 I don't know if I would see CalFed having a  
15 leadership role in this sense.

16 Certainly, among urban water districts both  
17 formally and informally there is an enormous amount of  
18 effort taking place to benchmark certain kinds of water  
19 quality, assessment practices and waste water treatment  
20 practices and all of that kind of stuff, a lot of which  
21 will ultimately, I assume, be driven by Federal drinking  
22 water standards and requirements.

23 And so it seems to me more that we just need to  
24 ensure that whatever efforts are going to be advocated by  
25 the preferred alternative in the final EIR are consistent

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1 with and are supported by both State and Federal efforts.  
 2 I don't see the CalFed staff taking on that  
 3 role.  
 4 I think there is a place for the program to  
 5 encourage that kind of ongoing collaboration. I think a  
 6 lot of it is happening already so . . .  
 7 CHAIRMAN MADIGAN: Okay.  
 8 Ann.  
 9 MS. NOTTOFF: Yeah, it seems to me,  
 10 though, that, you know, the findings and recommendations  
 11 that CalFed comes up with, for example, the one that struck  
 12 me there was the example of boating waste.  
 13 And certainly the State Water Resources Control  
 14 Board has the regulatory authority to regulate non-point  
 15 source water pollution and one might argue that they should  
 16 have done it already but, certainly, I think one of the  
 17 things that ought to come out of CalFed is to say  
 18 develop -- you know, put a program in place where you  
 19 regulate and enforce the discharge of water, boat waste in  
 20 the Delta and in other areas. I mean, that's the kind of  
 21 coordination that I think needs to come out and then we  
 22 need to take advantage of the regulatory authority that  
 23 already exists with State and Federal agencies.  
 24 CHAIRMAN MADIGAN: Clearly water quality  
 25 is a big deal to this organization in terms of the

1 this.  
 2 I concur in reluctance about the leadership  
 3 aspect.  
 4 CHAIRMAN MADIGAN: Okay.  
 5 Appropriate -- sure, Ann.  
 6 MS. NOTTOFF: For clarification, I mean,  
 7 when we talk about CalFed and the State Water Resources  
 8 Control Board, State Water Resources Control Board is part  
 9 of CalFed so it's not like we are separate.  
 10 CHAIRMAN MADIGAN: Right. We have met the  
 11 enemy and all that jazz, right, exactly. Okay.  
 12 Mary.  
 13 MS. SELKIRK: I'd make one other comment.  
 14 I think at the very least CalFed has an  
 15 opportunity to take the, what do you call it, the  
 16 inspirational position that issues of ag water quality,  
 17 point source, non-point source pollution discharge and  
 18 urban water quality are really all of the piece and that  
 19 they need to be dealt with in that manner. I think  
 20 historically that hasn't been the case.  
 21 So as I said -- along with what I said before  
 22 that our role or the role of CalFed may be more the  
 23 designer rather than the --  
 24 CHAIRMAN MADIGAN: Right. No, I  
 25 understand that.

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1 implementation of a Bay-Delta solution.  
 2 Clearly, there are institutions out there who  
 3 have various pieces of this State and local that we don't  
 4 want to tromp on. Clearly there are going to be  
 5 recommendations out of this group that are going to have  
 6 impacts of one sort or another on those other State and  
 7 local agencies, either do it better or you should be doing  
 8 this or this guy is over here, the two of you need to work  
 9 together or things like that and so maybe we are beginning  
 10 to define that sort of CalFed role and things as being not  
 11 leadership but being helpful and supportive and encouraging  
 12 and maybe pushy when the -- when that's required.  
 13 Okay. All right. I got it.  
 14 Yeah. Go ahead. Richard and then Alex.  
 15 MR. IZMIRIAN: I would like to see this  
 16 cooperation on a nationwide or watershed basis to follow  
 17 more of a CRIMP model, a coordinated resources management  
 18 planning model where the CalFed's role would be in the  
 19 implementation phase.  
 20 Then one of the criteria for funding for  
 21 funding for implementation would be a program that  
 22 integrates into a basin wide watershed plan.  
 23 CHAIRMAN MADIGAN: Alex.  
 24 MR. HILDEBRAND: I just wanted to clarify  
 25 that my earlier statement referred to the first part of

1 That makes sense Mr. Yaeger, did you want to  
 2 say something?  
 3 MR. YAEGER: I just wanted to respond to  
 4 the earlier question about the notification for the  
 5 meetings of the water quality technical teams.  
 6 We have drawn a distinction between the  
 7 technical teams and, for instance, the work groups.  
 8 The work groups were formulated by BDAC to  
 9 address policy related issues and to present policy  
 10 recommendations to BDAC, whereas the technical teams that  
 11 we have formed are more informal teams and really focus on  
 12 technical expertise on every one of the members.  
 13 We've tried in the case of the water quality  
 14 technical team and the levee technical team to cast the net  
 15 pretty widely, include interest groups across the spectrum  
 16 but try to kind of keep the invited list to those who have  
 17 relatively a technical expertise we are looking for to help  
 18 us in those areas.  
 19 So that is why the meetings do not appear on  
 20 the CalFed calendar.  
 21 That calendar is distributed widely and shows  
 22 up on our web page and all of those kinds of things, but we  
 23 would be glad to in your BDAC packet every month provide  
 24 the dates that the technical teams and levees and water  
 25 quality are meeting if that meets your needs.

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1 CHAIRMAN MADIGAN: Okay. Thank you.  
 2 Mr. Mills, would you let Mr. Meacher know that  
 3 as well? He asked that question earlier.  
 4 Thank you.  
 5 This would be an appropriate time for members  
 6 of the public who have questions or comment in regard to  
 7 this item.  
 8 I don't have any speaker slips.  
 9 Mr. Petry, come on up, sure.  
 10 Good afternoon.

11 MR. PETRY: Good afternoon, Mr. Madigan  
 12 and members of the Council.

13 I'm Ed Petry from Mendota, a private citizen  
 14 who has a lot of concerns about my area.

15 When we talk about land conversion, when we  
 16 talk about land retirement, when we talk about watershed  
 17 management, I'm on a current committee with the Pinoche  
 18 Creek CRIMP Committee out of Mendota, and from what I see  
 19 with land management in the area or trying to have some  
 20 kind of growth on the soils, we've had the heavy rains come  
 21 down here most recently. We've had a lot of growth in the  
 22 watershed area but still we have contaminants coming down.

23 And the contaminants coming down are pretty  
 24 heavy stuff, when you talk about boron and you talk about  
 25 selenium and you talk about salinity, and things that are

1 In my opinion, and it's only my opinion,  
 2 agriforestry doesn't seem to be working, neither does  
 3 watershed management as far as trying to grow things in the  
 4 watershed. Not in the spots that are as hot of areas where  
 5 there is 489 parts of selenium

6 And that's on record.

7 I'm troubled with 230 parts down in the  
 8 grasslands and the wetlands and where does it come from?

9 It came from the San Luis drain. Where does  
 10 the San Luis drain plumb in? From the 43,000 acres west of  
 11 Mendota.

12 That's where I came from and that's a big  
 13 problem. You talk about land retirement, how about third  
 14 party of pets and land retirement. What do we do with them  
 15 people that earn a living from them 43,000 acres?

16 And we are going to bring back the social  
 17 economics in another manner.

18 If we are going to retire land, all right,  
 19 retire it, but retire some for the benefit of wildlife but  
 20 then retire some for the benefit of industry.

21 Upgrade the work force, give us an ag related  
 22 industry west than Mendota to bring back the social  
 23 economics.

24 Retire some of the land and bring back the  
 25 pheasants like it used to be 40 years ago when you couldn't

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1 not only affecting agriculture, they are also affecting  
 2 fish and they are also affecting people.

3 When we stop and think about the 45,000 acres  
 4 that was plumbed west of Mendota in the underground  
 5 plumbing for the San Luis drain, well, where did those  
 6 contaminants come from to begin with?

7 They came from the hills. 295,000 acres of  
 8 watershed that comes down Pinoche Silver Creek, goes back  
 9 into Fresno County and San Bernardino County.

10 I don't know how many years I've been working  
 11 with watershed management as far as trying to grow things  
 12 on these areas that won't grow nothing.

13 You can fly it, you can look at it, you can  
 14 drive it.

15 I went up to Jack Ass Pass all through there  
 16 and came on down to little Pinoche Creek.

17 Everything was green except the troubled areas.

18 Now they are talking about trying to grow  
 19 things from other areas. We are introducing a plant  
 20 species from some place else like we did with the stripers  
 21 in the Sacramento Delta.

22 Then they are talking about, well, they won't  
 23 grow so we'll fertilize it.

24 So are those fertilizers going to contaminate  
 25 the ground?

1 drive back and forth to work from the ranch to the  
 2 headquarters without running into pheasants. It used to be  
 3 like that. It isn't anymore.

4 The quality of fish in the Mendota Pool, where  
 5 is the contaminants coming from?

6 They are coming from the Pinoche Hills that  
 7 runs through Mendota.

8 We had substantial flood flows this time, more  
 9 than we can handle. Some houses got wet.

10 We've seen it for 40 years. Something needs to  
 11 be done about the water quality.

12 When it shows the Central Valley region here  
 13 it shows where the San Joaquin River turns in the Central  
 14 Valley region and goes north. Well, just south of there is  
 15 where we are, south and west of there. It needs to be  
 16 controlled, point source of pollution.

17 If you are going to retire the land or  
 18 wildlife, is the wildlife going to be able to exist there  
 19 with that type of contaminants?

20 Agriforestry is fine, but it takes the good  
 21 water from the bad water and leaves the contaminants. You  
 22 have a residue leftover.

23 What do you do with it? You put it on the  
 24 paved roads, onto slabs, under parking lots. You don't  
 25 have to take it to hazardous waste dumps. You were in

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1 construction. You know what happens there. It won't bleed  
2 off on to the ground. Make use much it.

3 You'll turn a liability into an asset.

4 You can bring back the social economics. You  
5 can retire the land. You can take care of the  
6 contaminants, but we are going to have to get a handle on  
7 it sooner or later because it's going to keep getting  
8 worse.

9 I'd like to compliment the Bureau of  
10 Reclamation, the Corps of Engineers and the State.

11 The Bureau of Reclamation had control over the  
12 flows. It was something that they couldn't control.

13 The Corps of Engineers handled a flood  
14 situation that was drastic and they done a hell of a job  
15 with it, and the State was very, very helpful in all the  
16 areas, in all of the troubled areas and I think they need  
17 to be commended.

18 If anybody wants to sue anybody, I'll give them  
19 the number of the Good Lord and they can call him and file  
20 suit on him.

21 I tried to call Alex Hildebrand right after the  
22 first of the year and Alex Hildebrand, and somebody  
23 answered the phone said he was on his way out of the house  
24 with a shotgun and I didn't know if they said he was  
25 looking for Roger Patterson or was he going to go hunting

1 issue summary that highlighted some of the issues and  
2 described some of the accomplishments, as well as a longer  
3 paper that is sort of a discussion piece that we've been  
4 working on in the context of the water use efficiency work  
5 group.

6 After we get some guidance from BDAC today our  
7 next step will be to refine that discussion piece and to  
8 start to put it into a typed program description of the  
9 water use efficiency Common Program that we'll carry  
10 forward into a component integration and impact analysis.

11 Just a real quick review of the program  
12 elements in water use efficiency.

13 Urban water conservation, ag water use  
14 efficiency, efficient use of environmental diversions,  
15 water recycling and the last one that we've included which  
16 isn't strict physical efficiency but we have included water  
17 transfers in the hopper of tasks for the water use  
18 efficiency work group to examine.

19 Just a little overview of the approach that  
20 we've taken with water use efficiency.

21 First of all, it's policy not technical.

22 We are not looking at what kind of structure a  
23 toilet replacement program should have for an urban agency  
24 or what kind of canal control structures an irrigation  
25 district should be contemplating or installing.

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1 with him, I couldn't tell which, but they are both still  
2 here and they are getting along together and this is the  
3 cooperation that we need.

4 Thank you.

5 CHAIRMAN MADIGAN: Sometimes you just go out  
6 there and whoever you find first, you know.

7 Thank you, Mr. Petry.

8 Other questions or comments by members of the  
9 audience?

10 All right. If not then, Rick, thank you very  
11 much. I hope their comments have been have some assistance  
12 to you as you formulate the program.

13 Thank you.

14 Water use efficiency program description.  
15 Let's see. I guess, we must be to the other brother, Rick.  
16 Hi, Rick.

17 MR. SOEHRN: well, first of all, I'd like  
18 to commend my other brother Rick. He is a hard act to  
19 follow with that presentation. I'm going to have to rely  
20 on old-fashioned overheads today, I am afraid.

21 Today I'd like to summarize the water use  
22 efficiency common program, what we've accomplished so far  
23 and highlight some of the issues that we have identified  
24 and where we'd like some guidance from BDAC.

25 In your packet there was about a five-page

1 We are strictly looking at the policy measures.

2 Fortunately, there are other forums that are  
3 looking at the technical measures.

4 Second, and this is very important, our entire  
5 approach is based on cost effectiveness.

6 Our outlook is that if an efficiency measure is  
7 cost effective for an urban agency or an irrigation  
8 district, they should be implementing it.

9 If a measure is not cost effective and the  
10 agency can't find someone to help pay for it and make it  
11 cost effective, then they shouldn't be asked to do that  
12 measure. It's as simple as that.

13 Our approach relies on locally directed  
14 processes. There is an Urban Water Conservation Council  
15 and now a new Ag Water Management Council that have  
16 identified the appropriate practices for agencies to look  
17 at to analyze and perhaps to implement best management  
18 practices on the urban side and efficient water management  
19 practices on the ag side.

20 Very important is that this effort is to be  
21 supported by planning, technical and financing assistance.

22 You'll see that throughout the specifics of  
23 actions that we talk about it's going to be very important  
24 that we provide the necessary tools, the necessary  
25 information to agencies and districts so that they can

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1 analyze measures appropriately and implement those that  
2 pencil out for them.

3 And, finally, and we'll talk about the issues  
4 related to this later, we've proposed that the program be  
5 supported by assurances, that we really are going after the  
6 cost effective measures.

7 MR. HASSELTINE: Before you leave that  
8 could you enlarge a little bit on that cost effectiveness  
9 comment you made?

10 It left me with the impression it's sort of a  
11 take it or leave it depending on whether or not some local  
12 agency could find a way to get people to agree to the  
13 financing aspect of this.

14 MR. SOEHRN: Well --

15 MR. HASSELTINE: That doesn't seem to be  
16 consistent really with what I thought we were doing in the  
17 program overall, anyway.

18 MR. SOEHRN: Well, let me expand on that  
19 just a little.

20 The whole approach of the urban Memorandum Of  
21 Understanding and the ag Memorandum Of Understanding is  
22 based in cost effectiveness.

23 On the urban side we've identified 16 measures  
24 that are usually going to be cost effective for urban  
25 agencies to implement and when they sign that MOU they are

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1 asked to implement those measures unless they can conduct  
2 an analysis allege show that a measure is not cost  
3 effective for them in which case they can exempt  
4 themselves.

5 The approach on the ag side is a little  
6 different. The analysis comes first and there is an  
7 identified list of measures. Districts are asked to  
8 conduct a benefit analysis. If a measure is cost effective  
9 for them, they implement it.

10 Sometimes there are other ways to swing that  
11 cost effectiveness and to be able to implement a measure.

12 A good example on the urban side is toilet  
13 replacement programs. It saves water for the water agency  
14 and reduces volumes for a treatment agency, not loading but  
15 volumes.

16 So there may be benefits for two different  
17 agencies. There are opportunities for joint funding of  
18 programs like that.

19 So that's what I meant by the comment sometimes  
20 there are other agencies that can help out.

21 Does that help?

22 MR. HASSELTINE: Yeah.

23 Thank you.

24 MR. SOEHRN: Just a little bit more about  
25 efficiency.

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1 We've talked at BDAC meetings about different  
2 kind of efficiency.

3 First of all, is physical efficiency, and  
4 that's something that we can achieve directly through the  
5 actions that we propose in the water use efficiency Common  
6 Program; conservation measures, water recycling supported  
7 by the planning, technical and financing assistance that we  
8 have proposed.

9 Another type of efficiency that we talked about  
10 is the greatest achievement of CalFed objectives from the  
11 management of each unit of water.

12 And we can also pursue that kind of efficiency  
13 directly through some of the actions we've proposed.

14 Through the process, particularly, the net  
15 benefit analysis planning on the ag side, we may be able to  
16 identify opportunities where there could be water quality  
17 benefits, ecorestoration, habitat benefits, from an  
18 alteration in the management of local water supplies.

19 It may not be cost effective for a local  
20 irrigation district or a local water user to do that on  
21 their own. If it helps meet CalFed objectives it may be  
22 appropriate for other sorts of funding to be attributed to  
23 some of those sources of actions.

24 Finally, economic efficiency, of course, the  
25 conveyance and storage element is moving toward economic

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1 efficiency, but in the water use efficiency part of the  
2 program we can move toward economic efficiency indirectly  
3 through a voluntary water transfers market.

4 With conveyance and storage measures  
5 facilitating a voluntary transfers market safeguarded by  
6 the proper assurance that will move us toward economic  
7 efficiency in some cases, as well as moving us toward  
8 physical efficiency. Transfers can help pay for some of  
9 the conservation measures that otherwise might not be  
10 feasible for a grower or a district.

11 Water use efficiency, the Common Program, is  
12 different from the other components of our alternatives in  
13 a pretty fundamental way.

14 Most of the water use efficiency actions that  
15 will get taken will be taken by local agencies, not CalFed  
16 agencies.

17 The role for CalFed is going to be support,  
18 making sure that we have adequate financing, technical  
19 assistance, planning assistance so that local agencies have  
20 the tools that they need and devising and bringing to  
21 fruition assurance mechanisms so that agencies are  
22 implementing cost effective measures.

23 In the work group forum we have been able to  
24 agree on some general objectives, implementation objectives  
25 for the water use efficiency Common Program and these

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1 include ensuring a strong water use efficiency component  
2 for the Bay-Delta solution, emphasizing incentive  
3 disincentive based tools over regulatory tools and that's  
4 where the financing, the technical assistance, the planning  
5 assistance comes in very heavily, preserving local  
6 flexibility, both on our urban conservation approach and  
7 our ag water use efficiency approach.

8 We are depending on locally directed processes  
9 that help us out, that offer local flexibility, different  
10 ways of implementing measures, looking at the cost  
11 effectiveness of measures, only implementing them if they  
12 are appropriate.

13 We've agreed on a general objective of moving  
14 disincentives and barriers that we are able to identify for  
15 efficient water use.

16 I'll repeat again.

17 It's an important objective that the group  
18 identify to offer greater help in planning, financing of  
19 local water use management and efficiency improvements.

20 And finally that the group reached general  
21 agreement that it was an important objective to provide  
22 adequate assurance that water will be used at highly  
23 efficient levels.

24 We've also reached agreement on some actions  
25 for urban water use efficiency.

1 supply, whether it's looking at drought contingency  
2 measures and shortage plans to make sure that an agency is  
3 prepared in advancement.

4 So providing help along those lines is  
5 important.

6 And, finally, once again, funding assistance  
7 and technical and planning assistance, very common in our  
8 approach.

9 We've also talked about assurances in the  
10 context of urban water use efficiency and since there are  
11 some issues there I'd like to bring those up last in the  
12 presentation.

13 We've also discussed agricultural water use  
14 efficiency actions, come to agreement on appropriate  
15 actions there. First of all, water management planning.

16 Once again, we have a new stakeholder based  
17 organization, the Agricultural Water Management Planning  
18 Council. I hope I got that right.

19 And this is an organization that is taking on  
20 the task of preparing and maintaining a dynamic list of  
21 efficient water management practices.

22 They've started with a list of measures that is  
23 embodied in the ag MOU and the expectation is that over  
24 time this list may be changed, refined, improved upon.

25 Once again, technical and planning assistance.

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1 There is an Urban Water Conservation Council  
2 that has been functioning very successfully for about five  
3 years now, and it seems obvious to us that that is the  
4 proper forum for developing and maintaining a dynamic list  
5 of urban best management practices.

6 Five years ago that group came up with a list  
7 of 16 measures that at the time seemed to be the range of  
8 measures that urban agencies should be examining and  
9 probably implementing.

10 Now the Urban Council is going through a  
11 process of re-examining those measures to see which ones  
12 are really panning out, maybe some that really shouldn't be  
13 on the list at all, refining others as we've been able to  
14 learn more about them and improve our methods of  
15 implementation.

16 Improved water management planning. On the  
17 urban side we've had an urban water management planning act  
18 in the State Water Code for about 13 years now.

19 Agencies on the urban side are asked to  
20 prepare, adopt and implement water management plans and  
21 report on those activities to the State.

22 The Department Of Water Resources has been very  
23 active in providing assistance to agencies with all aspects  
24 of their water management planning that can help with water  
25 supply reliability, whether it's examining options for new

1 The Bureau Of Reclamation, the Department Of  
2 Water Resources have offered technical and planning  
3 assistance to water users for a long time.

4 There are probably opportunities for additional  
5 assistance. Maybe different ways of providing that  
6 assistance that are more effective, working more through  
7 RCD's and so forth, funding assistance, another important  
8 element.

9 Just the other day I got a report from the  
10 Department Of Water Resources about lateral move sprinkler  
11 systems and it identified a number of benefits for that  
12 kind of irrigation system, improved yield, more uniform  
13 water application, and so forth, but there is an incredible  
14 cost, sometimes \$300 an acre to develop an irrigation  
15 system like that.

16 It may save water, it may be a good idea, but  
17 it's very likely that a grower is going to need some  
18 assistance to fund a measure like that.

19 Coming up with the cash in advance shouldn't be  
20 an impediment to implementing it, an efficiency measure if  
21 it is going to be cost effective.

22 And finally in the area of agricultural water  
23 use efficiency we've included an action to identify and  
24 implement management improvements to achieve multiple  
25 benefits.

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1 I mentioned this earlier.

2 There may be opportunities, particularly in the

3 ag sector, to make improvements in water quality or the

4 timing of diversions or enhance habitat through changes in

5 the way water is managed, particularly at the local, the

6 district and the grower level.

7 Where those opportunities exist and they meet

8 CalFed objectives but they are not cost effective for the

9 District or the grower to implement on their own we should

10 have a process to examine those, if they meet CalFed

11 objectives perhaps CalFed agencies can contribute to the

12 implementation of measures like that.

13 So an important linkage with some of the other

14 aspects of the Bay-Delta program.

15 We've made the most headway in urban

16 conservation and ag water use efficiency.

17 There are three other elements that we have

18 started to look at or will look at.

19 One is efficient use of environmental

20 diversions.

21 Now, on the urban and ag sides by comparison we

22 have had a list of best management practices for five years

23 now.

24 We've recently reached agreement on a list of

25 efficient water management practices so some of the

1 and efficient use of water on refuges. Water recycling is

2 another area for efficiency with a lot of potential.

3 Once again the level of information that's

4 readily available to local agencies isn't quite up to what

5 it is for urban conservation and ag water use efficiency.

6 Right now the California urban water agencies

7 along with the water reuse association and DWR are

8 preparing a recycling analysis guide book that could be

9 used by a local agency to do an initial analysis of whether

10 a recycling project might be cost effective and feasible in

11 a local area.

12 And we expect that that will be a big help in

13 the future as agencies look at recycling and as they look

14 at the potential for recycling to improve their reliability

15 and balance supply and demand.

16 This is a very new area. Recycling projects

17 are generally very capital intensive, very expensive, take

18 a long time to plan and implement. So probably there will

19 be a different level of assurances that may be appropriate

20 there. We haven't had too much discussion of that in a

21 work group yet.

22 And, finally, water transfers.

23 It's different from the other elements we've

24 talked about and it is not a physical efficiency type of

25 measure.

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1 technical work has been done.

2 With efficient use of environmental diversions

3 some of this technical work is still happening. It's still

4 taking place.

5 Some of it is an outgrowth of CVPIA.

6 Right now there are several CalFed agencies who

7 are involved in an effort to refine the types of measures

8 that might be appropriate, especially for refuge water

9 management.

10 The U. S. Fish and Wildlife Service, the Bureau

11 Of Reclamation, the Department Of Fish and Game, and at the

12 local level, the Grasslands Water District are all working

13 together on sort of a separate parallel process to what we

14 are doing in CalFed, to look at efficient use of water on

15 refuges.

16 They've just hired a contractor to help them

17 with this and they are expecting to have a very open public

18 process with a lot of stakeholder input. So I expect that

19 in the CalFed Program we will perhaps be looking at

20 implementation objectives that are consistent with what we

21 are doing in urban and ag and perhaps look at a broad

22 framework of the kind of assurances that we feel might be

23 appropriate from the perspective of the CalFed Program and

24 pass that information along to the CalFed agencies who are

25 working on this separate effort at refuge water management

1 There are some unique needs for assurances.

2 At a previous BDAC Meeting we talked about

3 Governor Wilson's five points that he considered essential

4 for water transfers that relate to assurance needs.

5 And, finally, making the picture a little more

6 complex, there will almost certainly be other decision

7 forums involved in developing public policy for water

8 transfers. There was a Water Transfers Act. There is now

9 SB 15, which will probably be considered this year that

10 will refine public policy for water transfers so our task

11 will be to figure out the appropriate niche for CalFed in

12 all of this and to move forward there.

13 Just a word about impact analysis.

14 Once we have refined the elements of the water

15 use efficiency Common Program we'll be able to look at the

16 impacts that the program might have and we'll do that by

17 comparing the changes in implementation of efficiency

18 measures that are likely to take place in the CalFed

19 Program compared to both the current conditions and the no

20 action alternative, what would happen in absence of a

21 CalFed Program.

22 That may be a faster rate of implementation of

23 urban conservation measures, for example, on the ag side if

24 we are able to open a water transfers market.

25 It may be that we see more conservation

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1 measures being funded on the ag side because a transfers  
2 market opens up a funding mechanism for those.  
3 We'll evaluate a reasonable range of approaches  
4 and implementation levels that we might expect to get as a  
5 result of the CalFed Program.

6 And that will really be based on making some  
7 assumptions about assurances that we do pursue cost  
8 effective conservation measures and that future supplies  
9 are used efficiently.

10 We have identified some issues in the work  
11 group forum.

12 Maybe just to summarize three of them for you,  
13 probably the most difficult issue that has come up is  
14 reaching consensus on assurances, and there we really  
15 haven't reached consensus on assurances.

16 In addition, there are some other issues that  
17 have vexed, that we haven't totally resolved yet.

18 There are concerns about the adequacy of some  
19 of the efficient water management practices.

20 There isn't complete consensus on whether  
21 that's the right list and the light level.

22 And, finally, there is another sort of  
23 longstanding issue that has faced water conservation for a  
24 long time, and that's a difference in the cost  
25 effectiveness of measures, depending on whether you are

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1 looking at a statewide level, a regional perspective or  
2 cost effectiveness from the perspective of the local agency  
3 who is actually going to have to pay to implement the  
4 measure.

5 Many local agencies that are served by  
6 wholesalers pay a melded cost for water and so if a  
7 conservation measure can be implemented at something less  
8 than or maybe a little more than that melded cost of water  
9 they'll go for it even though the marginal cost of new  
10 water supplies to a wholesaler may be far higher than that.  
11 So that's a difficulty that's been with us for a long time  
12 in water conservation and has so far eluded complete  
13 resolution.

14 Focusing in on the issues related to  
15 assurances, we have talked in the work group about a  
16 general assurance mechanism.

17 We have assumed that efficient water use is  
18 going to be a prerequisite for receiving new water from the  
19 CalFed Program, for participating in a water transfers  
20 market, and for receiving water from a drought water bank.

21 Now, a couple of these we are already well on  
22 the way of pursuing.

23 I mean, it is the policy of the Department Of  
24 Water Resources right now that in order to receive water  
25 from the drought water bank a recipient Agency must be

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1 implementing urban best management practices or efficient  
2 water management practices on the ag side.

3 As far as the transfers market, DWR has an  
4 existing application package that they use when a  
5 transferrer wants to use State facilities to transfer  
6 water, to move water from the transferrer to the recipient.

7 So there is an obvious mechanism there to  
8 include an additional question on that application, is the  
9 recipient implementing efficient water management  
10 practices, best management practices.

11 We haven't looked at the specific assurance  
12 mechanisms for making sure that new water from CalFed  
13 Program goes to agencies that are implementing efficiency  
14 measures. It's hard to do that when we are just at a very  
15 preliminary stage of discussion about what kind of  
16 institution may be involved in developing new storage or  
17 operating a conveyance facility.

18 So really the details for an assurance  
19 mechanism there have to wait until some of the other  
20 institutions are developed a little further.

21 And, finally, for ag water use efficiency and  
22 urban water conservation we have proposed some assurance  
23 mechanisms and this is where we've reached really the most  
24 difficult area in the work group discussions and the  
25 greatest lack of consensus.

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1 As an agricultural assurance mechanism, first  
2 of all, we want to go with a locally directed voluntary  
3 program if at all possible.

4 The new Ag Water Management Council is just  
5 getting formed. I think to date there have been something  
6 like a dozen irrigation districts that have signed. They  
7 are serving about a million and a half acres. There is one  
8 environmental organization that has signed the MOU to date.  
9 It's just getting off the ground.

10 We have proposed a two year cycle, which is the  
11 planning and implementation cycle called for in that ag MOU  
12 to give that process a chance to work, to see if that  
13 voluntary, locally directed process is going to get to a  
14 good strong level of implementation of efficiency measures.

15 And as a backstop to that we have proposed a  
16 trigger mechanism, that if after two years we don't have  
17 districts serving two-thirds of the irrigated acres in our  
18 solution area that have signed up, they have developed a  
19 water management plan, it's been endorsed by the Council,  
20 they are beginning implementation, if we haven't received  
21 at a minimum that two-thirds level, then we'd have to go to  
22 something that is stronger than a voluntary approach, and  
23 what we have proposed is an addition to the State Water  
24 Code of an agricultural water management planning act,  
25 similar to the urban act that I mentioned earlier, that



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1 urban agencies have been complying with for the last 13  
2 years.  
3 On the urban side we have proposed an expanded  
4 role for the Urban Conservation Council.  
5 Right now that Council maintains a list of best  
6 management practices, is responsible for updating that list  
7 of practices and refining it.

8 They also gather implementation reports from  
9 signatory water suppliers, forward those to the State  
10 Board, and basically that's the extent of their  
11 responsibility or their activity in that area. Although,  
12 they do a lot of information sharing and studies as well.

13 We have proposed that their role be expanded to  
14 include some kind of certification process akin to the ag  
15 Water Management Council's endorsement.

16 And the authority for that Urban Council to  
17 impose noncompliance fees on agencies who are not  
18 implementing the terms of the MOU, whether that's  
19 implementing efficient practices that are cost effective or  
20 doing the analysis to show that they should be exempted  
21 because a measure is not cost effective for them.

22 And, finally, referring particularly  
23 recalcitrant agencies to the State Water Resources Control  
24 Board. Now, personally I am not entirely thrilled with  
25 that approach. It certainly wouldn't be a pleasant one to

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1 implement and I'm kind of afraid that having a stronger  
2 role and having a club in the hand of the Council could  
3 detract from some of the very positive work that it's doing  
4 now in terms of information gathering and sharing and  
5 research projects that the Council has done.

6 And so there is another effort underway that  
7 may help us to find an enforcement mechanism, an assurance  
8 that works better and has greater stakeholder support.

9 Right now the California urban water agencies  
10 and the Environmental Water Caucus are engaged in a process  
11 to try and recommend mechanisms to provide assurances that  
12 may have greater support from stakeholders. So those are  
13 the assurance mechanisms that we've outlined to date.

14 As I said, there is a resounding lack of  
15 consensus. On one side some stakeholders feel that having  
16 these assurance mechanisms is very important appropriate,  
17 very necessary.

18 On the other end of the spectrum some  
19 stakeholders have questioned the need for anything beyond a  
20 voluntary type of program for any kind of assurances at  
21 all.

22 So I'd like BDAC's guidance on whether the  
23 types of assurances we have proposed are appropriate to  
24 provide assurance that we are going to use our existing and  
25 new supplies efficiently.

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1 CHAIRMAN MADIGAN: Thank you, Rick.  
2 Questions or comments by members of the  
3 Council?

4 Tom and then Roberta.

5 MR. MADDOCK: To refresh everybody's  
6 memory on 3616 and the plan to bring that into -- I mean,  
7 it's not going to happen overnight, and would you go over  
8 that a little bit there and bring that into focus?

9 MR. SOEHRN: Okay. Sure.

10 Starting about seven years ago agricultural  
11 interests and environmental groups started work on  
12 negotiating a Memorandum of Understanding for ag water  
13 management that was similar to the existing -- now  
14 existing -- urban water conservation MOU and the Council  
15 that exists on the urban side.

16 The negotiations, the talks, have been going on  
17 for seven years. Recently agreement was reached and a  
18 final MOU was prepared and distributed throughout the  
19 process.

20 DWR has been very supportive. They've offered  
21 to act as the administrative support for the new Ag Water  
22 Management Council.

23 The MOU that has been prepared lists a number  
24 of efficient water management practices, some of which  
25 every irrigation district should do, the so-called A list,

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1 some which irrigation districts should analyze and  
2 implement if they are cost effective and to make sure that  
3 we have a uniform analysis. Included with the MOU is a net  
4 benefit analysis methodology for districts to follow when  
5 they do that analysis.

6 And the third category of measures is the C  
7 list, the C category, which includes measures that  
8 districts are implementing in some way right now but  
9 perhaps they could improve upon their implementation.

10 And those two measures are perhaps the most  
11 controversial.

12 They are measurement of water deliveries and  
13 pricing of water.

14 The idea is that irrigation districts will sign  
15 this MOU, commit to this process of analysis and  
16 implementation.

17 The MOU calls for an initial two-year period  
18 for agencies to prepare, adopt and submit to the Council  
19 their initial water management plans and the MOU calls for  
20 subsequent, I believe it's, biennial, reports on the  
21 implementation of the efficient water management practices  
22 that a district has identified as being cost effective and  
23 feasible. When the plans and the subsequent implementation  
24 reports get to the Council, the Council is sort of  
25 bicameral in nature.

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1 You've got irrigation districts on one side.  
 2 You've got environmental groups on the other side.  
 3 And the Council will either endorse or withhold  
 4 their endorsement of the plans and the implementation  
 5 reports.  
 6 And in order to endorse a District's plan a  
 7 majority of the irrigation district representatives on the  
 8 Council and a majority of the environmental group  
 9 representatives on the Council would have to vote to  
 10 approve or endorse a plan.  
 11 And that mechanism was devised in order to be a  
 12 very objective, very balanced process, to have a uniform  
 13 analysis methodology, uniform planning, and an endorsement,  
 14 a stamp of approval on planning efforts and implementation  
 15 efforts that districts were carrying out.  
 16 So I think Brad Chin is in the room. Brad,  
 17 you've given this lecture a number of times. Maybe if  
 18 there is something I left out you can add it.  
 19 BRAD CHIN: (Inaudible) -- for the  
 20 purpose.  
 21 CHAIRMAN MADIGAN: Okay.  
 22 Roberta and then Alex.  
 23 MS. BORGONOVO: I wanted to just sort of  
 24 summarize my comments which are in the packet.  
 25 I've been involved in water conservation in the

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1 urban sector since the very beginning of the Bay-Delta  
 2 hearings and I did also follow the ag water conservation  
 3 for several years. I think that what I'm saying and many  
 4 people in our work group are saying is that we see many  
 5 elements that are on their way towards being a successful  
 6 program and we don't think it's really aggressive enough  
 7 and I just wanted to address why.  
 8 There is a real concern that if CalFed is  
 9 looking at the three alternatives and they are looking at  
 10 what is more or less a nonstructural alternative all the  
 11 way over to a large dual isolated facility, that there has  
 12 to be the kind of mechanism in place on the nonstructural  
 13 side that would really make it viable.  
 14 And so when those of us that are involved in  
 15 that effort we want a real emphasis on really cutting back  
 16 on the demand in the system.  
 17 The whole intent is to try to have more water  
 18 for the environment. That's it in a nutshell and it's to  
 19 reduce the water that comes out of the system, to leave it  
 20 in the system for fish and wildlife purposes.  
 21 So that's our intent and it's the intent, also,  
 22 of the Environmental Water Caucus letter that was  
 23 distributed after lunch and that Gary Bobker spoke to, we  
 24 are really trying to emphasize that the whole range of  
 25 tools ought to be there but it's really for more water for

1 the environment.  
 2 That includes the whole issue of water  
 3 transfers and land retirement or land reuse or whatever.  
 4 It's really for more water for the environment.  
 5 It's not necessarily to take it -- it's not to  
 6 take it away from ag and give it to urban.  
 7 So that's the whole basis of the statement we  
 8 made.  
 9 So when it goes back to the water conservation  
 10 element what we see as assurances is not saying that there  
 11 shouldn't market assurances in place. We think that they  
 12 can be very important, but the experience with a truly  
 13 voluntary program we think will never emphasize that demand  
 14 side.  
 15 And so what we have suggested in the urban  
 16 sector and we would like to see in the ag sector is that  
 17 you don't just have the market mechanisms. You will also  
 18 have some sort of penalties and so the Urban assurances  
 19 mechanism which has been succeeded is pretty close to what  
 20 we are working on.  
 21 We have a lot of work to do because it still is  
 22 an effort that has to go through the California Urban Water  
 23 Conservation Council and we are still working with the CUWA  
 24 groups in this sort of side effort but what we hope for is  
 25 some sort of certification process after their performance

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1 standards are in place.  
 2 So we do see statewide performance standards.  
 3 That's what we hoped for.  
 4 Then we see a way of water agencies being able  
 5 to see that they could meet those because they are based on  
 6 cost effectiveness criteria.  
 7 It does, of course, include an avoided  
 8 environmental cost but I believe that's true in the ag  
 9 sector cost benefit analysis also.  
 10 A certification process might be -- it might  
 11 not be the Council. It might be the State Water Resources  
 12 Control Board and then some sort of mechanism if that  
 13 compliance can't be reached such as a noncompliance fee.  
 14 But we are doing it very much in an effort to  
 15 have a consensus on it, but we think that that's very  
 16 important for this overall goal which is to try to reduce  
 17 demand on the system.  
 18 CHAIRMAN MADIGAN: Alex.  
 19 MR. HILDEBRAND: Well, I have a little  
 20 different perspective on this, I guess, than Roberta, with  
 21 all due respect.  
 22 In the first place, we already have an  
 23 assurance mechanism in that the State Board is responsible  
 24 for the reasonable use of water and I'm very reluctant to  
 25 see us set up some other kind of assurance that goes

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1 between CalFed and the State Board.

2 Furthermore I think that in trying to go for an  
3 involuntary mandatory sort of implementation of a very  
4 complex issue like this we have to recognize that in trying  
5 to squeeze the last drop of blood out of a turnip we are  
6 going to make a lot of mistakes. We are going to create a  
7 lot of adversary attitudes, and to my mind it's a mistake  
8 to do that at the same time that we are ignoring an  
9 entirely different approach to water uses efficiency.

10 We are not looking at the opportunities on a  
11 watershed basis to make better multiple use and reuse of  
12 water and there are substantial opportunities in that  
13 regard.

14 I am hopeful that the group I am collaborating  
15 with will have a memorandum agreed on next week which will  
16 explain what we are talking about as it relates to the San  
17 Joaquin River system.

18 We think that the proposals we have are a  
19 win-win for everybody. They are not very expensive. In  
20 fact, we already have identified a source for what few  
21 funds are needed.

22 And if we succeed in agreeing on that  
23 memorandum next week, I will send it to CalFed and  
24 hopefully you'll see fit to distribute it before next  
25 meeting and I've tried before but I'm trying again to get

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1 attention on this different approach. It's an additional  
2 approach. It's not a substitute. But I do think that it's  
3 a mistake to try to squeeze the last little bit out of this  
4 user efficiency before we look at another approach which  
5 has more potential than this squeeze.

6 CHAIRMAN MADIGAN: Following that up for a  
7 second, Alex, you would think for example, that leaving  
8 water in-stream for some period would be a credit  
9 toward -- for environmental purposes?

10 MR. HILDEBRAND: Well, particularly, if  
11 you can manipulate in this case, for example, the time that  
12 drainage waters come in the river to coincide with the fish  
13 flow so that the fish flow serves the dual purpose for  
14 salinity control at the same time as providing fish flow  
15 and thereby saving a lot of water that otherwise gets  
16 released to more water Quality Control. It makes that  
17 available then for fish flow or for something else and  
18 that's merely one example.

19 CHAIRMAN MADIGAN: Okay.

20 So then, Roberta, the notion would be to  
21 release the water from the Hetch Hetchy, let it flow to the  
22 Delta and pick it up from there and take it to San  
23 Francisco, I suppose, and San Francisco would then gain  
24 some environmental credits for having done that.

25 MR. HILDEBRAND: That's not the approach

1 that we are suggesting because we are trying to have  
2 something that would be agreeable to all parties.

3 CHAIRMAN MADIGAN: It's just a question,  
4 no big deal.

5 Roberta, you wanted to follow.

6 MS. BORGONOVO: I'm very open to any sort  
7 of solution that gives you more water for the ecosystem so  
8 I don't close my mind to anything.

9 But I wanted to go back to why we had the  
10 effort for the urban water conservation in the first place.

11 I think that when you look for what we call  
12 long-term solution for the Bay-Delta, we are talking about  
13 a long-term protection of an ecosystem and none of us can  
14 see how you can continue to have urban growth over the  
15 long-term and not continue to impact that system.

16 So it's very important in the urban sector to  
17 have the conservation measures in place because that does a  
18 lot for helping to accommodate urban growth without putting  
19 a strain on the Water Resources.

20 But I think at the same time it's legitimate in  
21 the urban sector to say you have to have some sort of  
22 comparable effort in the ag sector.

23 It doesn't have to be the exactly same effort  
24 but it has to be a comparable effort.

25 But I want to go back to the statement that we

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1 would be interfering in what the Water Resources Control  
2 Board is doing.

3 We don't see taking away that regulatory  
4 authority at all from the State Board.

5 I'll just speak for myself and my own  
6 organization.

7 We've always supported the State Water  
8 Resources Control Board efforts but we see a process where  
9 agencies have been involved, and that's true in both the  
10 urban sector and the ag sector, they've been involved in  
11 helping write those performance standards.

12 And so we have assumed that they are reasonable  
13 and when we have a cost benefit analysis so long as it  
14 includes avoided environmental costs you really have that  
15 protection also from the agencies but in the whole effort  
16 of water development in the west, the idea that you would  
17 cut back in demand instead of increasing supply is just not  
18 part of our mentality. And so it's also that shift in  
19 thinking that we are trying to accomplish over the  
20 long-term.

21 I just want to go back and emphasize the goal.

22 The goal is really the protection of that  
23 ecosystem.

24 CHAIRMAN MADIGAN: Okay.  
25 Stu and then Mary.

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1 MR. PYLE: I've been participating with  
2 the water use efficiency work group since -- BDAC and all  
3 of you, since this issue first came out last summer.

4 I think from the initial writings that we saw  
5 on this beginning in about July of last year, and I think I  
6 voiced a lot of my concerns about them.

7 Also, those concerns I think have been  
8 qualified in terms of what is now coming out of the paper.

9 The presentation that Rick has just made, that  
10 there has been a separation of the CalFed objectives as to  
11 those general objectives, those objectives that relate to  
12 ag and those objectives as they relate to urban.

13 If you remember, they first came out all kind  
14 of all bundled together. They have been segregated. I  
15 think they have been sorted out and we agree in general  
16 with just about all of those.

17 And some of the other major concerns I had,  
18 such as the tools that were brought in, those have been  
19 modified largely down to the simple tools that Rick has  
20 presented here today.

21 You've got a good presentation on that. The  
22 question of water transfers is still there. Nevertheless,  
23 that's been separated out as a water efficiency measure,  
24 but I still think that deserves a higher billing in the  
25 overall terms of the report that you are giving it by

1 disincentives as a tool. We would prefer to see it  
2 strictly presented as an incentive basis without the  
3 disincentives, but we do recognize that those are there in  
4 terms of the water transfers, the attainment of additional  
5 water supplies, et cetera.

6 We don't see how you'd do otherwise in  
7 that -- in some purpose of a program.

8 In terms of the two-year program, a two-year  
9 period and you either get with it or we are going to come  
10 down hard on you, I don't think that's the right way to go  
11 at this either.

12 I think there should be some type of a more  
13 information based approach to this.

14 The question with a lot of water districts is  
15 not that if you guys start doing this process, that the ag  
16 MOU or the urban MOU has come up with within two years we  
17 know that then you are doing a good job.

18 The question is where have these water  
19 suppliers come from over the past couple of decades since  
20 we have been wrestling with this problem?

21 I know that districts and the growers in our  
22 area have been putting a lot of money and a lot of effort  
23 into improving water use efficiency.

24 And I have told many of you that we can  
25 document increases and improvements in water use efficiency

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1 submerging it into the efficiency program, but that's  
2 another question to be discussed someplace.

3 But then in terms of what Rick has presented  
4 today I think that there is very little that we disagree  
5 with.

6 Mostly we agree with what he has presented here  
7 today.

8 Now, we have had some very controversial  
9 sessions in the water use efficiency work groups chaired by  
10 Judith Redmond and it comes from the situation that Roberta  
11 has just brought up, the request of the Environmental Water  
12 Caucus for greater attention to levels of performance that  
13 might come forth under the urban -- excuse me -- under the  
14 both ag and urban MOU's and some type of compliance to  
15 ensure that all water users are achieving some particular  
16 level.

17 And I don't know that we've solved that.

18 We certainly don't agree with what Roberta has  
19 been putting forth as she stated here today, but I think  
20 everybody needs to recognize that even though there is a  
21 controversy here it at this point is not reflected in the  
22 presentation that Rick has made.

23 In what he stated here he's talking about  
24 assurances which are those -- which, again, we disagree  
25 with using the term disincentives and incentives,

1 in Kern County over a ten-year period, but I think what has  
2 to be given attention here is some way based on information  
3 available. It may take us more than two years to get that  
4 information. There should be some way of telling whether a  
5 water district is at a level where it needs to spend a lot  
6 of money to make improvements or whether it's doing about  
7 as good as possible under current economic levels and we  
8 think that both the ag and the -- at least the ag MOU with  
9 its cost based analysis to determine whether a measure is  
10 cost effective is going to help you do it -- is going to  
11 help do this, but it may not happen in two years.

12 And, on the other hand, they may already be  
13 doing everything that needs to be done.

14 So I think somehow we need to revisit this  
15 assurance effort and not assume that we can endorse the two  
16 years and I don't know what the other limit was comes along  
17 with that.

18 But we have -- I submitted a letter to you,  
19 Lester, which sites some of these concerns and I think  
20 you'll recognize that a lot of them are supported.

21 We also have submitted to you a draft of the  
22 longer paper that was presented by the staff on the water  
23 use efficiency in November and we've given you detailed  
24 comments on that.

25 That same paper has been submitted to you by

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1 Brad Chin on behalf of Farm Water Coalition who, I think,  
2 was instrumental in preparing it and it represents the  
3 input of many ag districts throughout the Central Valley.

4 And I think if there were a way that we could  
5 sit down in a smaller group and look at the fine points in  
6 that paper as compared to what the staff is using now I  
7 think we could come closer to it.

8 And I think, Roberta, if there continues to be  
9 an insistence on some type of compliance and enforcement,  
10 it's going to be a continual struggle, battle, hassle, with  
11 those of us who think that it's not the way of us to go  
12 about right now and I think it will be, let me say,  
13 inefficient in helping the CalFed people in achieving their  
14 goal here and I think when we want to do now is achieve the  
15 CalFed goal and I would hope that we could come to some  
16 agreement on this backing up basically what the staff has  
17 here, with these changes, as I say, that we are looking  
18 for.

19 CHAIRMAN MADIGAN: All right. Thank you.  
20 I have Mary and then Judith.

21 MS. SELKIRK: I have sort of several  
22 different sets of remarks I want to make, but I do want to  
23 respond to a couple of things that Stu just said.

24 The way the ag MOU, as I understand it, is  
25 written now, there is a voluntary two-year period during

1 supplies and current and projected beneficial uses  
2 dependent on the Bay-Delta system".

3 As far as I know, that is a fundamental goal of  
4 this program that everyone in the CalFed Program and BDAC  
5 agrees to.

6 So it's very disturbing to me to have an  
7 editorial comment that says "The statement struck out above  
8 indicates that the CalFed Program intends to re-allocate  
9 existing supplies, which is contrary to the Calfed solution  
10 principles".

11 So if we are still at the level of debate about  
12 the fundamental goal of the program then I'm very disturbed  
13 about that.

14 Anyway, I wanted to return to this issue of  
15 assurances.

16 I do think in the work group there have been  
17 levels of debate, one, with regard to implementation. I  
18 think Roberta pretty clearly stated the commitment on the  
19 urban side on ratcheting up its commitment to efficient  
20 water management from strictly the realm of voluntary BMP  
21 implementation but to a more standardized set of  
22 performance standards across the state.

23 I don't mean to imply that we are about to sign  
24 on the dotted line and that there is an agreement imminent  
25 among the EWC and urban water agencies. I think that would

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1 which time ag districts are invited to submit a plan and  
2 the quote unquote we'll come down hard on you after two  
3 years is really the invocation of a potential legislation  
4 like exists for the urban water management planning act and  
5 to my understanding there is no penalty for an urban  
6 district not fulfilling that requirement, or if it is, it  
7 certainly isn't one that is particularly severe.

8 I think it -- Stu may be overstating the case  
9 somewhat here.

10 And I also -- I'm somewhat frustrated by the  
11 presentation today because I think it doesn't accurately  
12 reflect the heated debate in the water use efficiently work  
13 group that I think is around both the issue of assurances,  
14 implementation and also around some substantive differences  
15 in perspective having to do with definitions.

16 We've had some debate hear about water use  
17 efficiency and how you define that or how you define  
18 benefit.

19 I don't want to go over old ground, but I was  
20 disturbed to see in the comments that Stu and I guess Brad  
21 from the Farm Water Coalition submitted to CalFed, which  
22 included in one of their sections on the draft of CalFed  
23 water use efficiency Common Program they are advocating  
24 striking out what I understand to be a fundamental CalFed  
25 goal, which is "Reduce the mismatch between Bay-Delta water

1 be hugely overstating the case.

2 However, I think there has been a very strong  
3 commitment there. I think many urban water agencies  
4 understand that the reliability of their future water  
5 supply and any -- and fulfilling their needs for any  
6 potential increases in water supply lie squarely on their  
7 demonstrated interest in a commitment to effective demand  
8 management.

9 I think that's been very clear.

10 I think with regard to assurances there has  
11 been some difference of opinion about what constitutes an  
12 incentive and what constitutes a penalty, and at the end of  
13 the last meeting Lester, sort of in a facetious way, raised  
14 the issue when I said I had to leave this meeting at a  
15 particular time because I needed to pick my kid up at day  
16 care. If I didn't get her by 5:30, it was \$15 for every 15  
17 minutes I was late and so Lester said "Well, is that a  
18 carrot or is that an incentive or a disincentive or a  
19 penalty?" I'm not sure. I think it's both. It was both  
20 an incentive to get there and also clearly there was going  
21 to be some consequence if I didn't. So I think that's the  
22 challenge for us and I don't mean to in any way trivialize  
23 this issue, but I think that's some of what the debate is  
24 that we are centering in on, how we distinguish between a  
25 sanction and an incentive.

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1 There have been extremist examples offered in  
2 the work group about, you know, pretty soon the State Water  
3 Board will be telling us how many showers we can take in a  
4 day and things like that, and I think that those are  
5 unfortunate kinds of comments.

6 I don't think they sort of move us in the  
7 direction of trying to find some common ground with regard  
8 to commitment to demand management. But on the larger,  
9 broader issue, I think we have some paradigm problems and I  
10 also want to address an issue that has been a hot one in  
11 the work group that we haven't discussed much here at all  
12 in BDAC.

13 We know that there is a lack of agreement on a  
14 definition of efficiency and a benefit and I think Stu  
15 spoke to that in some of his comments. But I think it is  
16 within the scope of CalFed to develop a public policy about  
17 how we are going to attempt to address that issue of  
18 efficiency and efficiencies of use.

19 Stu is confident that the market will take care  
20 of any inefficient use in agriculture and by and large I  
21 can agree with that. I think that, you know, as the cost  
22 of restoration of the Delta increases to all of us and all  
23 of the users then there are likely going to be practical  
24 economic decisions made among some ag users that may result  
25 in reduced use or whatever or land retirement or whatever.

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1 However, I think that we would all agree that  
2 without a level playing field regarding the cost of water  
3 that you are not going to end up with any truly efficient  
4 use coming straight out of any kind of market, market  
5 mechanism.

6 And regarding this issue of local flexibility,  
7 I think there is an assumption that any kind of standard of  
8 performance across a group of water districts restricts  
9 local flexibility.

10 I don't think that's true.

11 In the urban MOU, for example, ULFT rebates or  
12 ULFT conversion is a best management practice for urban  
13 districts.

14 Some urban districts are putting all of their  
15 conservative money into that practice.

16 Others are putting a minimal amount of money  
17 into it. I think it's still a performance standard across  
18 all urban districts but it's being interpreted and  
19 implemented differently district by district.

20 Now, I want to raise another issue because I  
21 don't think we'll have time to go into it today but I want  
22 to bring it to the attention of BDAC because it's one that  
23 particularly concerns me.

24 I think we may have a fundamental perspective  
25 problem with regard to how we define the environment.

1 There has been numerous stakeholders, primarily  
2 from the ag community in the work group and in -- that are  
3 calling for efficient use of water for environmental  
4 purposes.

5 And, in fact, in Stu's letter he says "Any  
6 water used for environmental purposes, including in-stream  
7 uses be given the same scrutiny as water use for urban and  
8 ag purposes". Now, this raises a difficult issue for me  
9 because what I'm trying to understand is if -- first of  
10 all, is this a really major issue among all of the ag  
11 community? I don't know whether it is or not. But the  
12 large question is for me is the environment a stakeholder  
13 here like an interest group or is the environment -- is  
14 water the environment that we are trying to restore?

15 My assumption is that's what we are dealing  
16 with here.

17 But I think we are having some significance  
18 difference of opinion.

19 As far as I can tell it's human uses that have  
20 turned water into a commodity for sale and the whole  
21 concept of waste and unreasonable use was developed  
22 because of human uses of water, not the fisheries' use of  
23 the environment, as far as I could tell.

24 So that's another side issue that I think at  
25 some point has to be debated.

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1 Every river in California has been brought to  
2 its knees by mismanagement and overuse by human activities  
3 of all sorts.

4 And I'm of the belief that the purpose for our  
5 sitting here today is that we are here to address the  
6 profound environmental damage that the Delta and all of the  
7 upstream tributaries have been exacted over the last  
8 hundred and fifty years.

9 So it's very hard for me to understand that  
10 particular way of conceptualizing that the environment is  
11 just another stakeholder in this process.

12 I think I'll stop my comments there, except to  
13 say I think we need help on this (laughter).

14 CHAIRMAN MADIGAN: Fine. Thank you.  
15 Judith and then Richard.

16 MS. REDMOND: Our work group has been very  
17 good at bringing up issues.

18 First, I wanted to thank Rick for his  
19 presentation and all his hard work.

20 I think he outlined actually what we've  
21 achieved and what the issues are very well.

22 One thing that I think this discussion points  
23 out for me is something that has been clear all along, as  
24 we go through the Public Workshops, as we have these public  
25 meetings, as we read all of the correspondence on this

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1 subjected. This is obviously an area which a lot of people  
2 feel very strongly about. And so I know they feel strongly  
3 about all of the issues in the other work groups as well.

4 There have been a lot of difficult issues  
5 raised in our work group and I don't actually think Rick  
6 was trying to gloss over any of those. He did want to just  
7 point out that there were some areas of agreement as well  
8 as some areas in which we hadn't agreed.

9 The issue, the question that you've heard  
10 points of view from several different people and which Rick  
11 suggested we should address, is one of the issues on which  
12 we don't have agreement. In fact, one which you've all  
13 heard widely divergent viewpoints now.

14 And that is -- I would even state it slightly  
15 differently than it's stated in the packet.

16 It's not necessarily are the mechanisms that  
17 have been suggested by the work group appropriate  
18 mechanisms to assure some level of implementation.

19 It's almost are assurances a good idea at all?  
20 Should there be assurances and what level of assurances  
21 should there be?

22 See, if you listen to the debate it's sort of  
23 the question on the floor and there is people that say no  
24 and there's people that say yes.

25 And I think that this is probably

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1 something -- I'm not sure but it seems to me that it might  
2 not be something that this larger group is going to come to  
3 agreement here on either, how to move forward on that  
4 question.

5 One possibility is simply the mechanisms that  
6 we've come up in the work group aren't the right ones and  
7 if we had come up with different mechanisms there would  
8 have been more agreement. So if there are members of BDAC  
9 who have other suggestions for mechanisms to, you know,  
10 ensure what Stu called -- you know, to make sure that  
11 districts are performing, if folks have other ideas, I  
12 think that that would be very helpful because none of us  
13 are absolutely certain that the ideas we've come up with  
14 are the right ones.

15 Another possibility is that we just leave it up  
16 to the staff and say, well, there's these pretty divergent  
17 view points and we are not really able to reach agreement  
18 on them and so we are going to have to wait until we see  
19 what the whole picture looks like. We are going to have to  
20 wait until we have more information about the entire CalFed  
21 Program and see which way makes the most sense in terms of  
22 moving forward.

23 There is also a third suggestion which is that  
24 I've also heard in the work group people saying that there  
25 is no possibility of additional water savings in the

1 agricultural or urban sectors and, on the other hand,  
2 people coming and saying that there is huge amounts of  
3 waste in both the environmental and agricultural and urban  
4 sectors and between those divergent viewpoints perhaps  
5 there is some truth somewhere and I don't know where the  
6 truth lies.

7 And I think that in terms of analyzing what the  
8 correct route for us to take is it would help if we had  
9 some answer to that question, some -- again, this is -- not  
10 that I don't want the work group to continue debating this,  
11 but it's a way of -- I also think that we need to turn it  
12 back to the staff and get some technical information that  
13 would help us analyze the different avenues that we come up  
14 with in terms of moving forward.

15 CHAIRMAN MADIGAN: Richard and then Bob  
16 Raab.

17 MR. IZMIRIAN: I think the comments we've  
18 heard really give the staff some things to chew on.

19 Some of us, or maybe it's just me, have a hard  
20 time understanding how the tools, particularly, the  
21 agricultural tools that were presented, can help Lester put  
22 together his jigsaw puzzle. They seem to be looked at as  
23 ends in themselves. There is really no way to see where  
24 these tools will actually create an overall Bay-Delta  
25 solution.

1 I agree with Roberta that we have to leave some  
2 water in the streams. I agree with Alex that we have to  
3 look at a watershed approach.

4 CHAIRMAN MADIGAN: Would you kind of like  
5 agree with Stu and Mary, too?

6 MR. IZMIRIAN: I would agree very much  
7 with Mary, and I'll withhold my comments on what Stu had to  
8 say except that I find the argument breathtaking that they  
9 shouldn't have any -- there shouldn't be any stick, that  
10 there shouldn't be any sanction for not meeting certain  
11 objectives.

12 I'm in business and I see that those things  
13 that -- those requirements that are regulatory based have a  
14 lot more effectiveness than those that are business or  
15 incentive based and I'm thinking primarily in terms of  
16 energy efficiency.

17 I would like to see the same policy questions  
18 raised for water use efficiency that were raised for the  
19 water quality discussion that we had where the -- I think  
20 it's very relevant that the -- that actions are taken at  
21 the local level and that the actions that can be taken are  
22 done with some flexibility but it should also be put into a  
23 larger watershed framework and I would like to see those  
24 same issues discussed for water quality in those terms.

25 Thank you.

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1 CHAIRMAN MADIGAN: Thank you.  
 2 Bob.  
 3 MR. RAAB: One quick point on the matter  
 4 of equity.  
 5 This program proposal sounds to me like pretty  
 6 much an carrots and no stick approach and I don't think  
 7 it's going to be workable.  
 8 There are big discrepancies between the way  
 9 urban water districts use water and I don't see them being  
 10 resolved here unless you say things like you cannot have an  
 11 unlimited amount of sod in your garden. If you live in Los  
 12 Angeles or out in Riverside where it's arid.  
 13 When -- in the water district I live in a water  
 14 rich area is aiming towards (inaudible).  
 15 Now, the water districts in Southern California  
 16 can say "Well, we are doing just fine and thank you very  
 17 much" and the fact remains that we'll be using a lot  
 18 more -- a lot less water in a water rich area than this  
 19 arid region.  
 20 This arid region will be using a lot more water  
 21 and I don't see this program coming to grips with that kind  
 22 of problem.  
 23 CHAIRMAN MADIGAN: Thank you.  
 24 Howard.  
 25 MR. FRICK: I just wanted to add a little

1 sell and if you try to put sanctions in place to be sure  
 2 there is compliance in our process here, I think you are  
 3 going to actually slow the procession down because you are  
 4 going to have a big fight and I think that would be very  
 5 unfortunate because I would hope this thing would move  
 6 forward.  
 7 As Judith said, there has been statements that  
 8 there is no waste and I've been one person that's told you  
 9 more than once that there is very little water to be saved  
 10 in agriculture by increasing efficiency.  
 11 I can say that. If you don't believe it, it  
 12 doesn't do any good and you have people saying there is  
 13 incredible waste.  
 14 I think the way to prove up on this and find  
 15 the facts and deal with them is to give the 3616 process a  
 16 chance to work. It's been six years or more for getting  
 17 developed. I think it's comparable to the urban one that's  
 18 been in place, that is working and I think we have to give  
 19 it a chance.  
 20 CHAIRMAN MADIGAN: Thank you, Howard.  
 21 David.  
 22 MR. GUY: I think just to echo a lot of  
 23 what Howard just said, that the two-year provision I think  
 24 concerns us. I think Stu has articulated it well in some  
 25 of his writings as has Brad Chin. I think as most people

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1 bit to what Stu had to say and Judith.  
 2 You know, we realize that agriculture uses, I  
 3 guess, what, 85 percent of the developed water supplies in  
 4 the state.  
 5 So I don't think there is any question that  
 6 agriculture owes the people of the State of California some  
 7 method of evaluating their efficiency and showing that they  
 8 are using it properly. We need to do that.  
 9 And if we're not we need to get our act  
 10 together and make the corrections necessary.  
 11 The thing I'm concerned with is the carrot  
 12 stick thing is when you try to use the stick and to try to  
 13 put something in place now that's stronger than the  
 14 voluntary MOU, I think you are going to get such resistance  
 15 that it's going to slow the process that we are trying to  
 16 move forward.  
 17 It's going to be difficult already. We see it  
 18 in some districts are skiddish about signing the MOU period  
 19 even though it's voluntary.  
 20 They are concerned about using their figures  
 21 against them. I tell them, "Hey, you've got nothing to  
 22 hide. You are doing a good job. But if you are not you  
 23 need to make corrections or if you're going to work do that  
 24 anyway".  
 25 But I think that's going to be tough enough to

1 recognize the diversity of California agriculture is just  
 2 astounding and to try to suggest that within two years we  
 3 are going to bring that all together under one uniform  
 4 process, I think, is just not going to happen.  
 5 The question I guess that I would pose then is  
 6 why are we so focused on the assurances in this particular  
 7 group when we have a whole nother assurances process and we  
 8 know that by the time this thing is wrapped up we are going  
 9 to have to have a hundred or a thousand different  
 10 assurances that are going to be necessary and we recognize  
 11 that so I guess maybe the question for Lester is why are we  
 12 focusing on assurances right now in this process?  
 13 Why don't we save the assurances for the later  
 14 time as part of the assurances process.  
 15 EXECUTIVE DIRECTOR SNOW: Well, maybe part  
 16 of the answer is that some of the finalization of the  
 17 assurances or triggers, in fact, will wait until a later  
 18 part of the process.  
 19 But I think the reason it has come up now is  
 20 the significance associated with water use efficiency and  
 21 how people have been concerned that just having a program  
 22 description that makes it all voluntary doesn't quite do  
 23 the job and therefore you need to at least bring up the  
 24 assurance issue.  
 25 The issue that you raised is must we put on our



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1 timeline absolute resolution of the assurance issue now? I  
2 think the answer to that is no. In fact, and I think it  
3 probably would be impossible to completely resolve the  
4 assurance issue at this time.

5 But I think -- I mean, there is still some  
6 substantive disputes and disagreements on this and I don't  
7 want to minimize those because those may in fact at some  
8 point become more important than this assurance discussion.

9 However, I think there is a chance that the  
10 assurance issue can be resolved in a broader context that  
11 all of the assurances are going to be necessary to  
12 guarantee the adequate flows and the protection of water  
13 users and all of the things that are down line on us. That  
14 can be wrapped into that but this one really has surfaced  
15 early and it's an important one.

16 MR. HASSELTINE: Mike and Sunne both have  
17 had to leave and Mike asked me if I would just carry on for  
18 the rest of the day so I will I hope you'll all indulge me  
19 with that. We do have some other topics by the way that we  
20 have to get into today and I don't want to belittle the  
21 discussion that's taking place here but this is a  
22 discussion that's going to come to a close here and then go  
23 back, I'm sure, to that working group and to the staff to  
24 begin to work on some of the resolutions and some of the  
25 problems that are being discussed here because the water

1 to jettison what are some legitimate policy issues and  
2 policy opportunities for maximizing agricultural water use  
3 efficiency at this point would -- certainly is not the way  
4 at NRDC or the Environmental Water Caucus sees this process  
5 as working.

6 So I think that rather than -- I would like to  
7 see us come up with something right now, a renewed  
8 structure or some type of plan so that we don't just refer  
9 this back to the same work group that's been struggling  
10 with this issue. They've done their job. They've put the  
11 issues on the table. They've come to us and said, "Listen,  
12 we are at a stumbling block here. I think we need to think  
13 about some way to help us move forward".

14 But to say that, well, you know, this is going  
15 to ruffle some feathers and it's going to be a problem so  
16 we shouldn't go forward with even considering it at this  
17 point, then if that's the test for any management measures  
18 that we are talking about here that we don't want to ruffle  
19 anybody's feathers we are not going to go anywhere with  
20 this program and I think it's more of a question of not  
21 that we are looking at why should we look at agricultural  
22 water use efficiency assurances now.

23 The question seems to be more like why should  
24 agricultural water use efficiency be exempt from the  
25 assurances work group.

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1 use efficiency is one of our common programs so it's  
2 supposed to be one of the building blocks of our whole  
3 project here.

4 Anyway, I have Ann and then Ray Remy and then  
5 Roberta and then Mary.

6 Ann.

7 MS. NOTTOFF: Well, I'm glad you brought  
8 us back to the procedural issues of how do we deal with  
9 this lack of agreement in this work group now.

10 And I think that one of the things that  
11 concerns me and concerns NRDC so much is that the  
12 presentation that we just heard, there is a huge  
13 inconsistency between, you know, the objective of having a  
14 strong water use efficiency component and then the tools  
15 that were set out there do not live up a strong water use  
16 efficiency component and I don't think that the water use  
17 efficiency work group should be apologetic that they have a  
18 lack of consensus. I think that's what this whole process  
19 is about. We need to debate this. We need to figure out  
20 what is the right mix in terms of assurances for ag water  
21 use efficiency. But what I see being presented here is  
22 that we are going to short circuit that debate when we have  
23 24 months worth of review and analysis in front of us.

24 I stretched my legs, looked at the map, at the  
25 chart, and we are only at the beginning of that chart and

1 I mean, that's, I think, what -- we are being  
2 told right now we can't even talk about it. If that's  
3 really how strong this debate is, then we need to  
4 resolve -- I don't think we can resolve it. We need to put  
5 something in place that we can move forward on it.

6 MR. HASSELTINE: well, I think that, you  
7 know, we had a discussion previously at one of the earlier  
8 meetings about consensus here and how we were going to try  
9 to function as a group and it's very clear on this  
10 particular point at the moment there is not what we would  
11 call a consensus.

12 And so we are going to have to do something  
13 about that.

14 That's not an issue that's unique to the water  
15 use efficiency working group.

16 That's going to arise in all of the other  
17 working groups in one way or another, I'm sure. As we all  
18 know, we all come here once a month and then perhaps in one  
19 of the working group meetings. Some of us work more  
20 regularly in the water issue than others but as a Board we  
21 only meet together once a month or so and it's very  
22 difficult to come in and just pick up where we left off and  
23 maintain a real comprehension of everything that's going  
24 on.

25 That's one of the reasons we have working

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1 groups to do some of the thinking for us.  
 2 This is a process which is very dependent on  
 3 good staff work and having a good technical backup so that  
 4 the information can be brought to this Board to deal with.

5 And I think in this case that the appropriate  
 6 way to try to get to the point where we do have something  
 7 we all can live with in terms of water use efficiency, is  
 8 to have it go back to the staff, analyze what's been said  
 9 here to see where the real problems lie and where the real  
 10 opportunities lie and I don't, frankly, know. Right now we  
 11 don't have a process that allows this to simply be brought  
 12 to this Board and say "Okay. We are going to either take  
 13 one side or the other".

14 I don't think that's the approach that we want  
 15 to get into, but I mean that's certainly up to the rest of  
 16 the Board and it's probably too late in this particular  
 17 meeting to get into this.

18 We are missing our Chair and Vice-Chair and a  
 19 number of other members that have left.

20 So I would say let's continue the discussion  
 21 today -- unless there is objection -- until everybody who  
 22 feels they need to say something today can do that and then  
 23 let's refer it back to staff and this can be brought up  
 24 again at the next meeting.

25 If that's not satisfactory then offer an

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1 alternative.

2 MS. NOTTOFF: Yeah, I mean, I hope you're  
 3 hearing that the water use efficiency (indicating) -- you  
 4 know, the description of the core program that was  
 5 described here is unacceptable at this point in terms of  
 6 meeting some of the very core objectives of this program.

7 Certainly, in the opinion of the Environmental  
 8 Water Caucus.

9 CHAIRMAN MADIGAN: Ray.

10 MR. REMY: After that particular  
 11 conversation it gets to a fundamental issue of conflict  
 12 resolution which we've avoided within the processes of  
 13 BDAC.

14 A couple of comments, particularly in terms of  
 15 the work involvement I've had with air.

16 When the air area got into a very heavy  
 17 regulatory approach it was helpful and useful but it also  
 18 created a fire strong backlash that ultimately led to a lot  
 19 of legislation where we as a business community in Southern  
 20 California wound up having to defend the air quality  
 21 management district because we felt that they do important  
 22 work.

23 On the other hand, the straight regulatory  
 24 approach really did not prove as successful as some other  
 25 techniques I think, that followed on, including the

1 reclaimed program, and that may be -- there may be  
 2 something within reclaim which is a market based mechanism  
 3 incentive system of the targets to be achieved with  
 4 benefits to those that do that could apply somehow to the  
 5 water use efficiency. At least it may be a technique that  
 6 might be useful to look at.

7 Having made that statement I do have a question  
 8 for Rick.

9 You and water quality both highlighted the fact  
 10 that there had to be financial assurances and cost benefit  
 11 issues.

12 Are you developing those financial constraints  
 13 or financial considerations, and, if so, can you make that  
 14 available to the finance group?

15 If you are not, who do you think is developing  
 16 and when would they be available to the finance group?

17 MR. SOEHRN: The two locally directed  
 18 processes that I mentioned, the Urban Council and the ag  
 19 Council are working on that.

20 I know as a part of the new ag MOU there is a  
 21 net benefit analysis methodology included in that document.

22 It's my understanding that the Urban Council is  
 23 working on similar documents to help urban agencies with  
 24 that kind of analysis and Byron Buck is here and perhaps  
 25 Byron has a little more up-to-date information on the

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1 status of some of that work in the Urban Council than I do.

2 BYRON BUCK: Yes, Byron Buck, California  
 3 Water Agency and also administrator of the California Urban  
 4 Water California Conservation Council. The Council is on  
 5 the verge of publishing its cost effectiveness guidelines.  
 6 There is a pretty thick manual on how you go about that  
 7 analysis and how it relates to the MOU so that should be  
 8 coming out.

9 I did want to speak a little bit to this issue  
 10 but I don't want to get in front of your BDAC members. So  
 11 the Chair's guidance here.

12 MR. HASSELTINE: Go ahead as long as you  
 13 are there.

14 BYRON BUCK: Okay. just very briefly,  
 15 Judith mentioned the work group and characterized it as  
 16 half being over and there should be sanctions and half  
 17 there not.

18 I think I would look at that a little  
 19 differently, certainly, from a California water agency's  
 20 perspective.

21 We're in sort of a maybe position that maybe  
 22 there is a need for certification and possible sanctions  
 23 but we haven't come to that decision. It's not ripe yet.

24 We need to look at the whole process and see  
 25 what the Council is doing.

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1 We have agreed with the Environmental Water  
2 Caucus to go forward with looking at the four point program  
3 we laid out, which looks at redefining the VMP's, coming up  
4 with measurable and evaluation tools, looking at a  
5 certification process and a sanctions process as well.

6 We are agree at this point we definitely need  
7 to upgrade the VMP's. They are a bit too vague right now.  
8 They don't lend themselves to measurement and evaluation.

9 That work is funded, is ongoing now. Council  
10 has a work group that's met six times already in full day  
11 meetings. They are in the last throes of getting out a  
12 draft, redraft of the VMP's, it's going to go out to a  
13 public review here in the end of the February 3 Workshop  
14 statewide.

15 We have also agreed that we need better  
16 measurement and evaluation tools, and the Council is  
17 working on that as well, concurrent with the redefinition  
18 of VMP's. The work that CUWA has funded with the EWC and a  
19 work group between CUWA and EWC is to come up with an  
20 overall package to mate with those redefined definitions  
21 and the Council's ability to do evaluation work. Then look  
22 at what kind of certification mechanisms might be possible  
23 and how indeed would they link to any sanctions and if they  
24 were needed.

25 All of those questions need to be addressed in

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1 detail.

2 Urban agencies need to know what the yardstick  
3 is going to be before they would subject themselves to that  
4 so that they know where they're going to stand in the  
5 system, but clearly from our perspective those things are  
6 on the table. We need a process to work with them and  
7 we've agreed to work with the Environmental Water Caucus to  
8 do that and it is indeed an open process that's going to  
9 have to be subject to BDAC review and anybody else really  
10 who is really interested.

11 Thanks.

12 MR. HASSELTINE: Thanks.

13 Roberta.

14 MS. BORGONOVO: I just wanted to go back  
15 to a point that Judith made and that is that when you -- is  
16 there sort of a Catch 22 if you don't have some sort of  
17 performance standards in place and you don't have  
18 measurement evaluation out there because then the case  
19 always comes up, well, what will the savings be which I  
20 think goes back to this discussion in the CalFed process.

21 And part of our worry is that there probably is  
22 a difference between the amount of savings you can get  
23 strictly voluntary and the amount of savings you can get  
24 where you have performance standards in place and you have  
25 a lot of financial incentives to do it but you also have

1 some sort of regulatory fall back.

2 So, again, it's not a heavy regulatory process  
3 that we are involved in.

4 But I just wanted to go back again to the  
5 advantage of it.

6 I think the advantage that many of the urban  
7 water agencies have seen and I think some of the  
8 agricultural agencies, too, is that if you can have some  
9 sort of agreement on what your performance should be and  
10 you can have some sort of a way of verifying that you  
11 performed it, you get buy off and you begin to answer this  
12 question of what the savings are and you begin to narrow  
13 the expectations between no savings at all and savings that  
14 a lot of people think they would never be able to achieve  
15 no matter what. So it goes back to some of these important  
16 issues that I think if we could ever get beyond them would  
17 bring us into a consensus mode and I think it would be more  
18 equitable because there are several agencies in both the  
19 urban sector and the ag sector that are way out ahead of  
20 everyone else and you want to sort of recognize that, too.

21 MR. HASSELTINE: Okay.

22 Mary.

23 MS. SELKIRK: You asked earlier for  
24 suggestions, how to advance this process.

25 I don't have a totally coherent suggestion

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1 except I think that Ray raised an issue when he mentioned  
2 that we don't have any process here for conflict  
3 resolution.

4 This may be a issue that the work group I don't  
5 think is ever going to reach agreement on. I think there  
6 are strongly held beliefs. People have very strong  
7 emotional values attached to their beliefs and to their  
8 definitions of the problem as well as the solution, along  
9 with a tremendous amount of, you know, technical  
10 information on all sides here.

11 Maybe what we need to think about over the  
12 course of the life of BDAC as we -- I think as the  
13 work -- poor Hap -- assurances group -- as your Agenda gets  
14 piled higher and higher and higher that I think ultimately  
15 we are going to have to be devoting a fair amount of time  
16 on the Council as a whole, maybe an entire seven hour  
17 meeting one day to developing some areas of very explicit  
18 agreement on assurances with regard to different components  
19 of the CalFed Program, that that may be one way to begin to  
20 address these issues.

21 I don't think it's going to get resolved in the  
22 work group.

23 MR. HASSELTINE: well, I think this would  
24 be a good point, Lester, for maybe you to address this  
25 general problem.

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1 EXECUTIVE DIRECTOR SNOW: Perhaps I'm  
2 naive and perhaps I'm overly optimistic but I'm not so sure  
3 that people are as far apart as the words that we choose  
4 today would make us seem.

5 I think there is a chance in the context of not  
6 just the water use efficiency component and in the ag and  
7 urban but in the context that includes transfers that a lot  
8 of these issues are in fact on the table and more agreement  
9 than we would expect.

10 But what I've noticed at the work group and  
11 here today is sometimes we use choose phrases to express  
12 our opinion that punch the button of the other side of the  
13 table.

14 And with that observation I guess what I would  
15 like to try to do is take this discussion, along with the  
16 information that we've gotten by letter and previous  
17 comments and try to craft what the program might look like,  
18 not a narrative explanation of previous discussions, but  
19 rather what the program might look like, how it might  
20 actually function and then perhaps to try to address some  
21 of the specific issues that have been raised and where they  
22 might fit in or plug into other parts of the program.

23 Because some of the issues that get raised  
24 aren't simply resolved in the water use efficiency program.  
25 They are resolved in other parts of the program.

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1 And so I think I'd like to try that where we  
2 put out a -- kind of a new document, a clean document, in a  
3 different way of explaining this and see if we are any  
4 closer.

5 And I know that we will not have closure at  
6 that point no matter what we write but maybe we narrow the  
7 issues, refine the disagreements, and then put them in the  
8 right pile to be resolved as the whole package comes  
9 together. So that's kind of what I have in mind as a way  
10 of proceeding from this meeting and see where we are at  
11 that point.

12 MR. PYLE: Do you have any time frame on  
13 that if any of the participants would like to submit a  
14 little more to you to consider (no paragraph).

15 EXECUTIVE DIRECTOR SNOW: That deadline  
16 was yesterday, Stu.

17 MR. HASSELTINE: Would your document,  
18 Lester, go back then to the work group to have a look at it  
19 before it comes back to the floor?

20 EXECUTIVE DIRECTOR SNOW: Well, obviously  
21 I haven't worked this out with Rick or Judith. Judith and  
22 I were discussing at lunch of how perhaps the next meeting  
23 which is scheduled for the 13th is just too soon for us to  
24 do the revision because the mailing would be on Monday so  
25 I'm thinking once Rick and Judith and I talk after this

1 meeting we may in fact cancel the work group meeting. I  
2 don't want to say that because we haven't collaborated with  
3 Judith on it but if that works out to then delay it and get  
4 a nice clean document out for their next meeting.

5 MR. HASSELTINE: Okay.

6 Linda Cole, would you like to speak on this.

7 LINDA COLE: I'm Linda Cole, Valley Water  
8 Protection Association at grassroots group at the Butte  
9 County level.

10 And I don't want to talk specifically about  
11 environmental water or ag water efficiency.

12 What I want to talk to you about is water  
13 transfers.

14 We have real concerns.

15 The tactic that CalFed is taking in terms of  
16 tabling the discussion about transfers and going with the  
17 assumption that water transfers are a done deal because DWR  
18 has moved in that direction when, in fact, DWR has been  
19 operating under a program Draft EIR that was based on  
20 drought necessity.

21 And we see there is a real opportunity for  
22 CalFed to contribute to the development of policy on  
23 transfers using the guideline of not just redirecting  
24 problems to another area, equity, and your idea of not  
25 inducing growth and demand management.

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1 We think that there are two issues about  
2 transfers.

3 One is transfers that have to do with in basin  
4 efficiencies that might be very useful management tools  
5 using conjunctive use where surface water is redirected to  
6 another user and groundwater is pumped where it may be more  
7 available but when you are talking about transfers in the  
8 same breath where water is redirected from one basin, one  
9 whole region, to another region, we think that this is  
10 where CalFed can contribute to the discussion that has been  
11 avoided.

12 We lived through a drought water transfer that  
13 was abusive in Butte County and so we have seen that there  
14 are problems that have not been addressed by the model  
15 water transfer act that is proposed, SB 15, and yet without  
16 having a discussion about water transfers you are basing  
17 your program study, factoring in transfers and you have  
18 correspondence essentially encouraging support of SB 15.

19 So I would urge you to take transfers up before  
20 you move too much further along, whether it's done in the  
21 efficiency group. That may just add one more level of  
22 contention, or whether you have a separate group.

23 But I think this is something that shouldn't be  
24 avoided. This is an opportunity for you to take some  
25 leadership here.

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1 Butte County is rather unique in that we stand  
2 to have impacts from the Central Valley Improvement Act,  
3 from the State Water Project, and also from refuge land  
4 that's being expanded. In fact, specifically, the last  
5 purchase of some large tract of rice land to be added to  
6 Grey Lodge was justified when the supervisors were  
7 concerned about that land being taken off the tax roles,  
8 was justified because it would provide more groundwater for  
9 the refuge.

10 And the comment was, "Well, we have a fund to  
11 pay for taxes, for land that's taken off the rolls". Butte  
12 County has not gotten any of that money because the fund  
13 always runs out of money first. So we are talking about  
14 policies that are coming from all of these different  
15 directions and assumptions about a critical component that  
16 could possibly change the whole culture of our county.

17 And I would urge you to take up transfers.  
18 Don't make the assumption that it's a done deal and that  
19 it's appropriate just to have a blanket acceptance of  
20 transfers and certainly don't go with the program EIR on  
21 these numbers.

22 That has not worked for the drought Water  
23 Transfer Act. They have not gone back and refined. What  
24 they've done is just continued on and stonewalled.

25 Thank you.

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1 MR. HASSELTINE: Thank you.

2 Judith.

3 MS. REDMOND: I just wanted to respond to  
4 that by saying that we have in the work group been planning  
5 to take up transfers and we had planned to do that at our  
6 next meeting.

7 It's looking like we won't be able to because  
8 the work at the staff level on providing us a written  
9 product that we can work from hasn't been done but we hope  
10 to take up that subject some time in the next few months.

11 MR. HASSELTINE: Okay.

12 Hap.

13 MR. DUNNING: I do have a short comment as  
14 to the way the group is going about it listening to this  
15 debate and difference of opinion.

16 In my mind at least, and perhaps this is  
17 grossly over-simplifying, but in my mind I hear Stu and  
18 Howard and others suggesting that you ought to have a  
19 program which is entirely voluntary and others saying, no,  
20 that's not going to really work. We have to have some  
21 coercive element. And what strikes me about those terms is  
22 they both relate to a regulatory approach.

23 I think there are other approaches to water use  
24 efficiency. I've always felt that price is a very direct  
25 and effective signal in many kinds of situations.

1 It's something you just have to deal with on a  
2 voluntary basis. It coerces your behavior in some indirect  
3 fashion perhaps and in thinking about this I looked at the  
4 report to see what was being done about price and I noticed  
5 that it is a not included item, item 17 among the regional  
6 identified tools mentions water use diversion fee not  
7 included and when I looked at the explanation of that it  
8 said this tool is being considered by CalFed as part of  
9 overall financing options.

10 It is not within the role and scope of the work  
11 group to discuss but will be discussed in other forums.

12 Well, that reasoning didn't seem to apply to  
13 assurances and I am a little unclear why it is being  
14 applied to price signals and the water use diversion fee  
15 and I wonder if a more careful examination of that might  
16 possibly lead to some sort of reconciliation within this  
17 work group.

18 MR. HASSELTINE: Rick, do you have an  
19 answer to that?

20 MR. SOEHRN: There are two levels at which  
21 we can look at pricing.

22 One is that the CalFed agency level, and there  
23 we've set pricing of water from, say, State and Federal  
24 agencies or new water from the CalFed program. It might  
25 include something like a diversion fee would be part of

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1 financing of the program, and we can send that issue to  
2 another work group.

3 At the local level pricing is also a tool for  
4 efficiency, obviously, and in there it's addressed both in  
5 the urban MOU and the ag MOU. So pricing is certainly  
6 being addressed and because we've embraced both of those  
7 local agreements we have included pricing very strongly in  
8 our program.

9 But just not at the level of a diversion fee  
10 that might apply to all diverters throughout the watershed  
11 or anything like that.

12 We've put that over to the finance work group.

13 MR. HASSELTINE: On behalf of the finance  
14 work group, thanks.

15 MR. SOEHRN: My pleasure.

16 Okay. Alex and I see hands out in the  
17 audience. I'll get to those in a second.

18 It needs to be on this issue, though. The  
19 public comment period in general is late.

20 MR. HILDEBRAND: I just wanted to ask that  
21 before you announce the adjournment that I get a chance to  
22 offer a couple of items for the next Agenda.

23 MR. HASSELTINE: We are not too close to  
24 adjournment yet. Okay.

25 Audience participation on this?

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1 Okay. This lady here in front.  
 2 POLLY SMITH: My name is Polly Smith. I  
 3 work with both the Save San Francisco Bay Association and  
 4 the League Of Women Voters and I've worked a lot with water  
 5 conservation in both the urban and the ag sector.  
 6 I'm very pleased, Lester, that you are taking  
 7 this back and I hope that CalFed can craft a much more  
 8 effective and aggressive and a broader and more  
 9 comprehensive water efficiency element. To me it is not  
 10 adequate as it's been presented although I think it's a  
 11 very good start. I'm pleased that you were including  
 12 multiple uses and watershed approach and that transfers  
 13 will be considered and the reason I hope that CalFed will  
 14 take a very broad approach is that both of the MOU's do not  
 15 include all of the agencies in your watershed. I think  
 16 water efficiency, water conservation, should be statewide  
 17 but I know CalFed is just your watershed wide.  
 18 But only some belong to these Councils. What  
 19 about the rest of them?  
 20 Maybe this is a bit flip. You should make it  
 21 mandatory, if they don't belong to these MOU's, then they  
 22 would join, but also within the MOU councils some do a much  
 23 better job than others.  
 24 There is a real inequity here and I think that  
 25 you at CalFed can only solve with help from the Urban MOU

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1 Council and the ag MOU.  
 2 I'm concerned about the cost effectiveness  
 3 issue too because of the low price of water for  
 4 agriculture. I think that's going to be difficult and  
 5 certainly I think the assurance issue is difficult,  
 6 particularly if there aren't any backup sticks or penalties  
 7 or disincentives. I would hope the approach would be so  
 8 many incentives that people voluntarily would join and do  
 9 everything possible.  
 10 So it would be so disadvantageous to them not  
 11 to and I'm sure that pricing should be given a  
 12 real -- price and measurement should really be analyzed.  
 13 Thank you.  
 14 MR. HASSELTINE: Thank you.  
 15 This gentleman and then Mr. Petry.  
 16 MR. JACKSON: My name is Mike Jackson.  
 17 I'm a lawyer representing the ~Regional Council  
 18 of Rural Counties.  
 19 I've been attending some of the water use  
 20 efficiency Workshops and I'm very happy to see that you are  
 21 expanding the program to deal with water efficiency on a  
 22 watershed basis, is what I understand I just heard. The  
 23 problem is we have not clearly defined what we mean by  
 24 water efficiency.  
 25 To many of us who believe in the watershed view

1 water use efficiency would be designed to attempt to use  
 2 water as many times as possible all the way through the  
 3 system, thereby benefiting everyone.  
 4 Dealing only with efficiency to say one form of  
 5 product I think loses concept of -- loses sight of what  
 6 efficiency could be.  
 7 I have not seen a sector analysis either in  
 8 terms of water use efficiency.  
 9 I don't think it is completely appropriate to  
 10 judge simply whether or not alfalfa water use is  
 11 appropriate at five acre feet per acre or seven acre feet  
 12 per acre.  
 13 I think what you want to take a look at is  
 14 whether that sector is efficient in comparison to all of  
 15 the other uses.  
 16 And I don't see any of them in the water use  
 17 efficiency work so far.  
 18 What I see is that we are talking about water  
 19 use efficiency as if it was simply a matter of what happens  
 20 after the diversion to the tap and that's just not a very  
 21 efficient use of the concept of deficiency.  
 22 If we broaden the idea to include the  
 23 efficiency of the Delta use of water in a circulation  
 24 system using the State and Federal pumps in the San Joaquin  
 25 River, that water use would be the most efficient of any

1 use that you could do because you get to use it twice  
 2 (indicating).  
 3 So I would encourage you to take a look at the  
 4 definition of efficiency as we begin this project again and  
 5 try to understand it in a much more holistic environmental  
 6 sense.  
 7 The other thing is that in the matter of  
 8 transfer, form of us upstream transfers are the singlemost  
 9 inefficient way to deal with the water problems of  
 10 California because they lead us into a legal morass that we  
 11 are all quite aware of in California water law.  
 12 The transfers are so unique to the individual  
 13 situation that it seems to me that it's impossible for us  
 14 to rely on that water as part of the long-term structure  
 15 before we do a real examination of the logical question of  
 16 transfer and so if you are going to deal with transfer, it  
 17 should be a subject of its own and it should have the time  
 18 and attention it needs and I do not believe it can be done  
 19 on that timeline (indicating).  
 20 So I'm pleased that water use efficiency is  
 21 expanding.  
 22 I don't think we are there yet and I think it's  
 23 a very important area.  
 24 Thank you.  
 25 MR. HASSELTINE: Thank you.

1 Mr. Petry.

2 MR. PETRY: I don't know who hung that  
3 schedule up there but I think he shot the lives of the  
4 Delta because it's kind of running (inaudible (laughter)).

5 Anyhow, you know, I look at both sides of the  
6 story and I see what Judith is doing with the water  
7 conservation in her efforts and I think she should be  
8 commended because she is doing a good job, but then at the  
9 same time I have a complaint about recycled water when you  
10 talk about recycled tail water for agriculture.

11 (Inaudible) Pinoche Water District and if the  
12 they have a bunch of salt and salinity in that area.

13 And I helped to fabricate that system. We took  
14 transformers, electrical transformers, cut them up, stacked  
15 them up and that made the basin for the pumps and that was  
16 a lip system from one ditch to the other, picked it up and  
17 that helped to use it again. That was 40 years ago.

18 Now there is a whole lot of concern about the  
19 salinity in that area. They've got all kinds of tests  
20 going on.

21 It's one of the highest concentrations of  
22 salinity on the west side east of Russell Avenue and that's  
23 just south of the Delta Mendota Canal where the water table  
24 was so high that you couldn't drive grain trucks down the  
25 dirt roads without them sinking in before they built the

1 San Luis drain. I was there.

2 So sprinklers -- if you want to sprinkle --  
3 irrigate ground, you are going to conserve water. You are  
4 going to get more beneficial use of it. If you want to  
5 recycle tail water, you are going to have to have a good  
6 quality of water.

7 When you irrigate the fields, it goes down the  
8 roads, it's in a tail water ditch, comes back up.

9 What kind of chemicals did you put on the crops  
10 when you sprayed the crops?

11 Are those chemicals going to come back in a  
12 higher concentration and then you have to put more  
13 chemicals on the next time and you are doing the same thing  
14 with the salts. You get a higher evaporation so you get a  
15 higher level of salt in your tail water coming back to your  
16 ponds.

17 Then when we talk about water transfers if we  
18 talk about water transfers we'll be pulling water out of  
19 the ground and transferring it to another area. I don't  
20 care if it's in or out of project. That water has to be  
21 replenished.

22 So you have to have a consistent supply of  
23 water to replenish the water you are taking out. It  
24 doesn't make any sense to take it out and not put nothing  
25 back.

1 Land subsidence is what they call it.

2 Transfer of water surface water. If you are  
3 going to transfer a surface water from an area and that  
4 area has sufficient supplies, fish, wildlife, habitat, row,  
5 domestic, industrial, agricultural and we have a supply for  
6 it, good, that's fine.

7 Now, that's high quality water we've got coming  
8 from the San Joaquin River. It's real high quality water.

9 And if we are going to sacrifice those waters  
10 to get more water by way of the Delta Mendota and the  
11 Mendota Pool I think we are settling things against the  
12 tide because the water coming up on the Delta Mendota isn't  
13 that high a quality water.

14 I'd rather see lesser water coming from the  
15 Delta Mendota and more water coming from the Friant Dam  
16 into the San Joaquin River and I'd like to see a consistent  
17 flow to replenish the habitat, to keep the (inaudible) of  
18 subsidence, to bring the salmon back, to bring up the  
19 quality of water, to have quality water to flush out the  
20 Central Valley region with rather than to have more water  
21 coming from the Delta Mendota out of your Sacramento Delta.

22 And, you know, and this goes to water quality,  
23 too.

24 You can't keep recycling bad water without  
25 getting the residue that you can't do nothing with.

1 So we need to keep the water in our area in its  
2 place and we need more of it. We need more storage and it  
3 might be down the road we are going to get it but we will  
4 get it and at that time maybe there will be sufficient  
5 storage to where we can transfer our water out of project  
6 or across the Valley or anyplace else but at this point in  
7 time I don't think it's reasonable.

8 And I'm talking about where I live. And I want  
9 somebody to look out for us.

10 I want to thank you for your time.

11 MR. HASSELTINE: Thank you.

12 If there is no other comment on this I'd like  
13 to squeeze in one more presentation today that goes to some  
14 of the points that were just brought up.

15 Do you have a comment?

16 Is it on this subject?

17 MR. DUNN: My name is Bill Dunn and I'm  
18 the Director of the Calaveras County Water District and for  
19 those of you who do not remember me, why, I've been in the  
20 water business as a consulting engineer for like 40 years  
21 and I work all over the State.

22 My concern here on water use efficiency is the  
23 fact that this committee is restricting its needs for  
24 environmental water to that that is being diverted. It  
25 seems to skip the matter of in-stream flows.

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1 In-stream flows are a very critical part of  
2 water use for environmental purposes, presumably for water  
3 quality, for fish and wildlife and riparian uses and there  
4 certainly is a proper use.

5 The question is is how much water is needed for  
6 this.

7 In all of my 40 years of work I've been  
8 involved in the matter of in-stream flows and it's been my  
9 information that the methodology for developing has been  
10 pretty much guess by guess and, by gosh, with very little  
11 scientific input, and it certainly needs to be examined.

12 The in-stream flow requirements have been very  
13 serious, enormous, in fact, on mountain counties because  
14 that's their water.

15 They cannot start. They can't use it. It  
16 increases the costs of their development sometimes, even  
17 the feasibility of their developments.

18 It not only affects the mountain counties but  
19 it affects everybody above the outside of the Delta because  
20 they have to release water into the Delta for these  
21 presumed water needs and it affects everybody in the entire  
22 State when you consider the outflow from the Delta. It is  
23 really an in-stream flow need.

24 Those of you who followed that for the years  
25 this amount has ranged from 1500 second feet to 5,000

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1 second feet and that's a pretty broad range and I think a  
2 lot of attention has to be spent on really how much water  
3 is needed and what the cost effectiveness and feasibility  
4 of whatever these flows are, whether you are talking about  
5 mountain counties or the Valley or the Delta.

6 And I think if they don't feel -- if this  
7 particular group don't feel this fits into their Agenda,  
8 somebody must attend to it and must deal with it.

9 Thank you very much.

10 MR. HASSELTINE: Thank you.

11 Okay.

12 For BDAC we've heard Lester indicate what the  
13 process is going to be on this particular issue.

14 So if there is no objection to leaving it at  
15 that at this point, I'd like to try to close up today's  
16 session with a presentation by Steve Yaeger.

17 As you know, the fundamental differences  
18 between our three alternatives that we are looking at in  
19 Phase II are the storage and the conveyance components and  
20 to sort of end up today we'd sort of like to have an update  
21 on where we are with those definitions and those particular  
22 facilities.

23 Steve.

24 MR. YAEGER: Okay. What I want to do  
25 quickly, and I will move through this very quickly because

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1 we will -- I guess I'm not on here (indicating). Let me  
2 try this again.

3 I'm going to move through this fairly quickly.  
4 I'm sure you all are anxious to stay here until eight  
5 o'clock, too, but we'll be giving a more detailed briefing  
6 on storage and conveyance in the March meetings and April  
7 meetings so you can expect to see this coming back again in  
8 more detail.

9 I did want to review just a couple of contents,  
10 though, to get you ready for the briefings at those  
11 particular meetings.

12 So we are going to be giving you a little  
13 update on the progress that's been made since the last  
14 briefing we gave you and -- my battery is dead -- sounds a  
15 little better.

16 MR. HASSELTINE: Yeah, that's better.

17 MR. YAEGER: Am I on back there?

18 MR. HASSELTINE: Yep.

19 MR. YAEGER: So I'll give you an update on  
20 the progress we made since the last time we reported at  
21 BDAC. There was no member meeting.

22 I want to review with you quickly some of the  
23 ranges of the storage conveyance component that we are  
24 looking at and then just touch briefly on some of the  
25 operating concepts that we have talked about earlier so

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1 that you have a sense of what's going on there.

2 We've been continuing to work on developing the  
3 relationships between the storage unit and the conveyance  
4 unit and wrapping in, also, the water conservation elements  
5 and water transfer elements.

6 At this point we are concentration.

7 Concentrating mainly on storage and conveyance  
8 but we need to keep that in the wider context of these  
9 water use efficiency measures, also.

10 To give you a sense of the relationships that  
11 we are working on this flow matrix diagram tends to try and  
12 draw what those relationships are between north of Delta  
13 Storage, Delta conveyance facilities and what we call  
14 storage facilities off the -- on the aqueduct system; that  
15 is, the State Water Project aqueduct and the Delta Mendota  
16 Canal. Generally south of Delta Storage falls in that  
17 category.

18 Remember, again, within this we've got water  
19 use efficiency and water transfers fits in the larger water  
20 management picture.

21 But we are looking at a ring of surface storage  
22 north of the Delta and conjunctive management of  
23 groundwater basins on a partnership basis with local  
24 agencies.

25 Both of those storage concepts interact with



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1 each one of the three types of conveyance that we've  
2 specified in our alternatives, the existing conveyance  
3 system, through-Delta conveyance, dual transfer and so you  
4 get a different relationship north of Delta Storage with  
5 each one of the conveyance systems.

6 Also, in Delta Storage interacts with  
7 conveyance and north of Delta Storage in a different type  
8 of a relationship and this flows through and then you get a  
9 third tier of relationships with the south of Delta Storage  
10 off of the aqueduct system.

11 It will give you a sense of the kind of the  
12 complexity of what we are trying to analyze. We'll give  
13 you a few of the relationships that we are developing at  
14 the November meeting but we are moving ahead to try to fill  
15 out this full matrix of the combinations of conveyance  
16 along this line, of storage along this line.

17 You remember from the Phase I alternatives  
18 alternative one was providing more efficiency in the  
19 existing conveyance system. We'll be looking at  
20 reoperating the existing system and adding increments of an  
21 increased pumping capacity in alternative one and combining  
22 that with looking at the north of Delta, in-Delta, south of  
23 Delta Storage and groundwater.

24 The colors here and also the numbers that we  
25 have along the axes are only to give you a sense of the

1 There seemed to have been some confusion about  
2 that earlier but I want to make sure that it's understood  
3 that we are looking at these relationships against those  
4 objectives and the objectives again were to reduce conflict  
5 over the beneficial use of the Bay-Delta waters and reduce  
6 the uncertainty of Bay-Delta water supplies.

7 So that analysis take place within this larger  
8 review of objectives and the way that each one of the  
9 combinations meets those objectives.

10 I had some other things that I wanted to talk  
11 about as far as operating concepts but just to set the  
12 stage, some of those relationships we talked about earlier  
13 as to how you divert water out the Sacramento River into  
14 north of Delta storage and when you release it to augment  
15 fisheries flows and to augment water supplies.

16 Those operating concepts are really the key to  
17 how well each one of these combinations do in meeting the  
18 objectives and we'll be presenting some of those concepts  
19 to you at your March meeting in more detail.

20 Suffice it to say we've been working with a  
21 group of stakeholders, both on the waterside and the  
22 environmental side to try to frame the range of operating  
23 concepts that we'll be using in doing the analysis to show  
24 how well these alternatives do in satisfying the  
25 objectives.

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1 kind of ranges that we are looking at.

2 We haven't yet defined exactly what the outer  
3 edges of these ranges are, but the green, for instance, is  
4 meant to show you that with the reoperation existing system  
5 that the larger storage facilities don't make as much  
6 sense. You can't make efficient use out of them and it may  
7 be pointing toward a smaller storage north of the Delta,  
8 whereas with the larger re-operation schemes, of course,  
9 larger storage makes more efficient use of the system.

10 And that's similarly true with the other  
11 conveyance alternatives.

12 This is kind of a simplistic presentation of  
13 all combinations. If we had had time to work out the  
14 graphics, it would be even better represented as kind of a  
15 Rubic's cube because it's really four dimensional; north of  
16 Delta Storage interacts with in-Delta storage and you get  
17 different relationships and again reacts differently with  
18 south of Delta storage and so you have a four dimensional  
19 matrix that you are working with that we are trying to  
20 develop the kind of relationships to fill in the boxes here  
21 to give us a sense of what ranges of storage work with the  
22 different conveyance schemes.

23 Again, all of our analysis is kind of under  
24 this larger umbrella of the objectives that we have adopted  
25 for water supply reliability.

1 So I think I will just stop there and if you  
2 want to take some questions, I'm available or --

3 MR. HASSELTINE: Well, yeah. I had one.

4 You've got a matrix up there of a whole bunch  
5 of different combinations, but for each of those sizes up  
6 along the top you also have different possible locations.

7 Right?

8 Is that another variable?

9 MR. YAEGER: The location variable is  
10 really what's shown in green, north of Delta, in-Delta,  
11 south of Delta, and, again, we are dealing with it at a  
12 programmatic level so we are looking at a range of  
13 geographic locations north of Delta. That would be north  
14 of Woodland clear on up to Red Bluff.

15 MR. HASSELTINE: That was my question.

16 Is the fact that those could be anywhere in  
17 that area is where they specifically might be as you start  
18 to look and narrow it down and you have choices, yet you  
19 had another set of variables, right?

20 MR. YAEGER: The geographic area enters  
21 into it as a variable but not some of the other issues we  
22 are dealing with.

23 MR. HASSELTINE: I understand.

24 MR. YAEGER: But, obviously, where it's  
25 located and where you are able to move water off the

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1 Sacramento River does make a difference there in meeting  
2 the objectives.

3 MR. HASSELTINE: Questions?

4 Alex?

5 MR. HILDEBRAND: You don't appear to have  
6 any storage shown south of the Delta on the east side.

7 If not, why not?

8 MR. YAEGER: I just ran out of dimensions  
9 to show that, Alex.

10 Really, when we say south of Delta storage we  
11 are including the San Joaquin system and looking at raising  
12 the existing facilities there and providing offstream  
13 storage off the San Joaquin to accomplish fisheries  
14 benefits and water quality benefits as well as water supply  
15 augmentation. So it is in the mix. It isn't shown real  
16 well with this matrix but --

17 MR. HILDEBRAND: Yeah, but if you lump it  
18 in with south of Delta westside storage, the latter ties in  
19 with your conveyance capability but the former does not.

20 In fact, any water yield you can get in the  
21 San Joaquin River system from that system or from the  
22 King system is the water that then is already south of the  
23 Delta.

24 It doesn't have to come across the Delta, and  
25 it's conserved in more multiple uses than these storage

1 In an implementation section of today's  
2 brochure it says that the ecosystem round-table -- the list  
3 of problems recommended for funding will go to the  
4 ecosystem round-table for review and discussion. The  
5 ecosystem round-table is appointed to provide stakeholder  
6 input into the process for priority setting and selection.

7 Does that mean we don't need BDAC anymore,  
8 round-table has taken over?

9 MR. HASSELTINE: I don't think so.

10 Alex, that's one of the things we dropped off  
11 today because we ran out of time.

12 MR. HILDEBRAND: I'm suggesting this be  
13 explained at the next meeting.

14 The other thing is that an appropriate time  
15 that would be up to Mary, I think, when that would occur.

16 I think we should have a presentation by  
17 Margaret Ambreau (phonetic) and Tom Zuckerman about the  
18 opportunities for ecosystem restoration in the Delta that  
19 do not involve taking land away from agriculture.

20 There are far more of those opportunities than  
21 I think most of you realize. Some of them are ongoing.  
22 Some are in the mill and others are potential.

23 I think most of you would be surprised to the  
24 degree to which you can get ecosystem restoration without  
25 taking land away from agriculture and without the

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1 systems you have to the north.

2 MR. YAEGER: That's exactly right.

3 We simplified this in order to try to get it on  
4 a single graphic but, in fact, the way we are looking at it  
5 is that north of Delta storage geographically is the same  
6 as the San Joaquin system storage.

7 It operates in the same kind of way and we will  
8 be looking at it within that context but we just simplified  
9 it in order to get it all on one matrix.

10 MR. HASSELTINE: Any other questions?

11 Okay. Thanks, Steve.

12 Okay. That's going to end the business Agenda  
13 for today.

14 Are there any further public comments?

15 I don't have any cards.

16 Okay. Seeing none then we are adjourned until  
17 March 12th.

18 Is that right?

19 I'm sorry, Alex. I forgot you.

20 MR. HILDEBRAND: Two items for future  
21 Agenda.

22 One is that, as far as I know, BDAC has never  
23 had an explanation of the function of the ecosystem  
24 round-table, how it relates to Mary's committee, how it  
25 relates to the BDAC.

1 consequent loss of water supply that happens when you do  
2 that.

3 MS. SELKIRK: Tom is on the work group so  
4 we'll make sure that that (affirmative nod) . . .

5 MR. HASSELTINE: Okay. Any last comments?  
6 Okay. Then we really are adjourned.

7 (Whereupon BDAC recessed at five o'clock p.m.)

8 ---oOo---

1 STATE OF CALIFORNIA }  
2 COUNTY OF SAN JOAQUIN } ss.

3 I, SUSAN PORTALE, Certified Shorthand  
4 Reporter of the State of California, do hereby certify:  
5 That on the 30th day of January, 1997, at  
6 the hour of 10:08 a.m., I took down in shorthand notes the  
7 said witness' testimony and the proceedings had at the time  
8 of the giving of such testimony; that I thereafter  
9 transcribed my shorthand notes of such testimony by  
10 computer-aided transcription, the above and foregoing being  
11 a full, true and correct transcription thereof, and a full,  
12 true and correct transcript of all proceedings had and  
13 testimony given.

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19 County of San Joaquin, State of California  
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